

Symbols defined by unicode-math

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Modified (df) to show Kpfonts Math symbols

This document uses the file `unicode-math-table.tex` to print every symbol defined by the `unicode-math` package. Use this document to find the command name or the Unicode glyph slot for a symbol that you wish to use. The following fonts are shown: (with approximate symbol counts)

LM **Latin Modern Math** (1612)

S **STIX Two Math** (2460)

E **Erewhon Math** (1644)

K **KpMath Regular** (1578)

T **TeX Gyre Termes Math** (1665)

G **Garamond Math** (1610)

Li **Libertinus Math** (1641)

Symbols defined in Plain \TeX are indicated with ^(p) after their macro name. \LaTeX follows Plain \TeX , but defines a handful more, indicated with ^(l). Symbols defined in `amssymb` are indicated with ^(a).

Note that this list of fonts is not intended to be exhaustive but I am happy to add new fonts by request if they are distributed in \TeX Live.¹

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¹Only a single \TeX Gyre Math font is shown here by design as they all largely have the same symbol coverage.

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1 Opening symbols, \mathopen

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|----|----|----|----|----|----|----------------------------|---|
| U+00028 | (| (| (| (| (| (| (| \lparen | left parenthesis |
| U+0005B | [| [| [| [| [| [| [| \lbrack | left square bracket |
| U+0007B | { | { | { | { | { | { | { | \lbrace ^(p) | left curly bracket |
| U+0221A | √ | √ | √ | √ | √ | √ | √ | \sqrt ^(p) | radical |
| U+0221B | | ∛ | | | | | ∛ | \cuberoot | cube root |
| U+0221C | | ∜ | | | | | ∜ | \fourthroot | fourth root |
| U+02308 | ⌈ | ⌈ | ⌈ | ⌈ | ⌈ | ⌈ | ⌈ | \lceil ^(p) | left ceiling |
| U+0230A | ⌋ | ⌋ | ⌋ | ⌋ | ⌋ | ⌋ | ⌋ | \lfloor ^(p) | left floor |
| U+0231C | ⌑ | ⌑ | ⌑ | ⌑ | ⌑ | ⌑ | ⌑ | \ulcorner | upper left corner |
| U+0231E | ⌔ | ⌔ | ⌔ | ⌔ | ⌔ | ⌔ | ⌔ | \llcorner | lower left corner |
| U+023B0 | | ⌿ | ⌿ | | | | ⌿ | \lmoustache ^(p) | upper left or lower right curly bracket section |
| U+02772 | | ⌘ | | | | | | \lbrbrak | light left tortoise shell bracket ornament |
| U+027C5 | | ⌚ | | ⌚ | | | | \lbag | left s-shaped bag delimiter |
| U+027CC | | ⌟ | | | | | | \longdivision | long division |
| U+027E6 | ⌈⌈ | ⌈⌈ | ⌈⌈ | ⌈⌈ | ⌈⌈ | ⌈⌈ | ⌈⌈ | \lBrack | mathematical left white square bracket |
| U+027E8 | ⌈ | ⌈ | ⌈ | ⌈ | ⌈ | ⌈ | ⌈ | \langle ^(p) | mathematical left angle bracket |
| U+027EA | ⌈⌈ | ⌈⌈ | ⌈⌈ | ⌈⌈ | ⌈⌈ | ⌈⌈ | ⌈⌈ | \lAngle | mathematical left double angle bracket |
| U+027EC | | ⌘ | | | | | ⌘ | \lbrbrak | mathematical left white tortoise shell bracket |
| U+027EE | (| (| (| | (| (| (| \lgroup ^(p) | mathematical left flattened parenthesis |
| U+02983 | | ⌈ | | | | | | \lBrace | left white curly bracket |
| U+02985 | | (| | | | | | \lParen | left white parenthesis |
| U+02987 | | ⌈ | | | | | ⌈ | \llparenthesis | z notation left image bracket |
| U+02989 | | ⌈ | | | | | | \llangle | z notation left binding bracket |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|----------------------------|--|
| U+0298B | | ⌊ | | | | | | <code>\lbrackubar</code> | left square bracket with underbar |
| U+0298D | | ⌊ | | | | | | <code>\lbrackultick</code> | left square bracket with tick in top corner |
| U+0298F | | ⌊ | | | | | | <code>\lbracklltick</code> | left square bracket with tick in bottom corner |
| U+02991 | | ⌵ | | | | | | <code>\langedot</code> | left angle bracket with dot |
| U+02993 | | ⌵ | | | | | | <code>\lparenless</code> | left arc less-than bracket |
| U+02995 | | ⌶ | | | | | | <code>\Lparengtr</code> | double left arc greater-than bracket |
| U+02997 | | ⌷ | | | | | | <code>\lblkbrbrak</code> | left black tortoise shell bracket |
| U+029D8 | | ⌸ | | | | | | <code>\lvzigzag</code> | left wiggly fence |
| U+029DA | | ⌸ | | | | | | <code>\Lvzigzag</code> | left double wiggly fence |
| U+029FC | | ⌹ | | | | | ⌹ | <code>\lcurvyangle</code> | left pointing curved angle bracket |

2 Closing symbols, \mathclose

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|----------------------------|---|
| U+00021 | ! | ! | ! | ! | ! | ! | ! | \mathexclam | exclamation mark |
| U+00029 |) |) |) |) |) |) |) | \rparen | right parenthesis |
| U+0005D |] |] |] |] |] |] |] | \rbrack | right square bracket |
| U+0007D | } | } | } | } | } | } | } | \rbrace ^(p) | right curly bracket |
| U+02309 | ⌋ | ⌋ | ⌋ | ⌋ | ⌋ | ⌋ | ⌋ | \rceil ^(p) | right ceiling |
| U+0230B | ⌋ | ⌋ | ⌋ | ⌋ | ⌋ | ⌋ | ⌋ | \rfloor ^(p) | right floor |
| U+0231D | ⌌ | ⌌ | ⌌ | ⌌ | ⌌ | ⌌ | ⌌ | \urcorner | upper right corner |
| U+0231F | ⌍ | ⌍ | ⌍ | ⌍ | ⌍ | ⌍ | ⌍ | \lrcorner | lower right corner |
| U+023B1 | | ⌋ | ⌌ | | | | ⌋ | \rmoustache ^(p) | upper right or lower left curly bracket section |
| U+02773 | | ⌋ | | | | | | \rbrbrak | light right tortoise shell bracket ornament |
| U+027C6 | | ⌋ | | ⌋ | | | | \rbag | right s-shaped bag delimiter |
| U+027E7 | ⌋ | ⌋ | ⌋ | ⌋ | ⌋ | ⌋ | ⌋ | \rBrack | mathematical right white square bracket |
| U+027E9 | ⌋ | ⌋ | ⌋ | ⌋ | ⌋ | ⌋ | ⌋ | \rangle ^(p) | mathematical right angle bracket |
| U+027EB | ⌋ | ⌋ | ⌋ | ⌋ | ⌋ | ⌋ | ⌋ | \rAngle | mathematical right double angle bracket |
| U+027ED | | ⌋ | | | | | ⌋ | \Rbrbrak | mathematical right white tortoise shell bracket |
| U+027EF |) |) |) | |) |) |) | \rgroup ^(p) | mathematical right flattened parenthesis |
| U+02984 | | ⌋ | | | | | | \rBrace | right white curly bracket |
| U+02986 | | ⌋ | | | | | | \rParen | right white parenthesis |
| U+02988 | | ⌋ | | | | | ⌋ | \rrparenthesis | z notation right image bracket |
| U+0298A | | ⌋ | | | | | | \rrangle | z notation right binding bracket |
| U+0298C | | ⌋ | | | | | | \rbrackubar | right square bracket with underbar |
| U+0298E | | ⌋ | | | | | | \rbracklrtick | right square bracket with tick in bottom corner |
| U+02990 | | ⌋ | | | | | | \rbrackurtick | right square bracket with tick in top corner |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|--------------|-------------------------------------|
| U+02992 | | › | | | | | | \rangledot | right angle bracket with dot |
| U+02994 | | › | | | | | | \rparengtr | right arc greater-than bracket |
| U+02996 | | › | | | | | | \Rparenless | double right arc less-than bracket |
| U+02998 | | › | | | | | | \rblkrbrak | right black tortoise shell bracket |
| U+029D9 | | › | | | | | | \rvzigzag | right wiggly fence |
| U+029DB | | › | | | | | | \Rvzigzag | right double wiggly fence |
| U+029FD | | › | | | | | › | \rcurvyangle | right pointing curved angle bracket |

3 Fence symbols, \mathfence

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|----------------------|-------------------------------|
| U+0007C | | | | | | | | \vert ^(p) | vertical bar |
| U+02016 | | | | | | | | \Vert ^(p) | double vertical bar |
| U+02980 | | | | | | | | \Vvert | triple vertical bar delimiter |

4 Punctuation symbols, `\mathpunct`

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|-----------------------------|--------------|
| U+0002C | , | , | , | , | , | , | , | <code>\mathcomma</code> | comma |
| U+0003A | : | : | : | : | : | : | : | <code>\mathcolon</code> | colon |
| U+0003B | ; | ; | ; | ; | ; | ; | ; | <code>\mathsemicolon</code> | semicolon p: |

5 ‘Over’ symbols, `\mathover`

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------------------|--------------------------------------|
| U+023B4 | $\overline{x+y}$ | $\overline{x+y}$ | $\overline{x+y}$ | $\overline{x+y}$ | $\overline{x+y}$ | $\overline{x+y}$ | $\overline{x+y}$ | <code>\overbracket</code> | top square bracket |
| U+023DC | $\overparen{x+y}$ | $\overparen{x+y}$ | $\overparen{x+y}$ | $\overparen{x+y}$ | $\overparen{x+y}$ | $\overparen{x+y}$ | $\overparen{x+y}$ | <code>\overparen</code> | top parenthesis (mathematical use) |
| U+023DE | $\overbrace{x+y}$ | $\overbrace{x+y}$ | $\overbrace{x+y}$ | $\overbrace{x+y}$ | $\overbrace{x+y}$ | $\overbrace{x+y}$ | $\overbrace{x+y}$ | <code>\overbrace^(p)</code> | top curly bracket (mathematical use) |

6 ‘Under’ symbols, `\mathunder`

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--|---|
| U+023B5 | $\underline{x+y}$ | $\underline{x+y}$ | $\underline{x+y}$ | $\underline{x+y}$ | $\underline{x+y}$ | $\underline{x+y}$ | $\underline{x+y}$ | <code>\underbracket</code> | bottom square bracket |
| U+023DD | $\underparen{x+y}$ | $\underparen{x+y}$ | $\underparen{x+y}$ | $\underparen{x+y}$ | $\underparen{x+y}$ | $\underparen{x+y}$ | $\underparen{x+y}$ | <code>\underparen</code> | bottom parenthesis (mathematical use) |
| U+023DF | $\underbrace{x+y}$ | $\underbrace{x+y}$ | $\underbrace{x+y}$ | $\underbrace{x+y}$ | $\underbrace{x+y}$ | $\underbrace{x+y}$ | $\underbrace{x+y}$ | <code>\underbrace^(p)</code> | bottom curly bracket (mathematical use) |

7 Accents, \mathaccent

Note that accents will only be properly placed if used with an OpenType font with the necessary information.

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------------------------|--------------------------------------|
| U+00300 | ̂ | ̃ | ̄ | ̅ | ̆ | ̇ | ̈ | \grave{p} | grave accent |
| U+00301 | ́ | ̂ | ̃ | ̄ | ̅ | ̆ | ̇ | \acute{p} | acute accent |
| U+00302 | ̂ | ̃ | ̄ | ̅ | ̆ | ̇ | ̈ | \hat{p} | circumflex accent |
| U+00303 | ̃ | ̄ | ̅ | ̆ | ̇ | ̈ | ̉ | \tilde{p} | tilde |
| U+00304 | ̄ | ̅ | ̆ | ̇ | ̈ | ̉ | ̊ | \bar{p} | macron |
| U+00305 | ̅ | ̆ | ̇ | ̈ | ̉ | ̊ | ̋ | \overbar | overbar embellishment |
| U+00306 | ̆ | ̇ | ̈ | ̉ | ̊ | ̋ | ̌ | \breve{p} | breve |
| U+00307 | ̇ | ̈ | ̉ | ̊ | ̋ | ̌ | ̍ | \dot{p} | dot above |
| U+00308 | ̈ | ̉ | ̊ | ̋ | ̌ | ̍ | ̎ | \ddot{p} | dieresis |
| U+00309 | ̉ | ̊ | ̋ | | ̌ | ̍ | ̎ | \ovhook | combining hook above |
| U+0030A | ̊ | ̋ | ̌ | ̍ | ̎ | ̏ | ̐ | \ocirc | ring |
| U+0030C | ̋ | ̌ | ̍ | ̎ | ̏ | ̐ | ̑ | \check{p} | caron |
| U+00310 | | ̌ | | | | | ̍ | \candra | candrabindu (non-spacing) |
| U+00312 | | ̍ | | | | | ̎ | \oturnedcomma | combining turned comma above |
| U+00315 | | ̎ | | | | | ̏ | \ocommatopright | combining comma above right |
| U+0031A | | ̏ | | | | | ̐ | \droang | left angle above (non-spacing) |
| U+020D0 | ̂ | ̃ | ̄ | ̅ | ̆ | ̇ | ̈ | \leftharpoonaccent | combining left harpoon above |
| U+020D1 | ̂ | ̃ | ̄ | ̅ | ̆ | ̇ | ̈ | \rightharpoonaccent | combining right harpoon above |
| U+020D2 | ⤵ | ⤶ | ⤷ | | ⤸ | ⤹ | | \vertoverlay | combining long vertical line overlay |
| U+020D7 | ̂ | ̃ | ̄ | ̅ | ̆ | ̇ | ̈ | \vec{p} | combining right arrow above |
| U+020DB | ̈́ | ̈̂ | ̈̃ | ̈̄ | ̈̅ | ̈̆ | ̈̇ | \ddddot | combining three dots above |
| U+020DC | ̈́̈́ | ̈̂̈̂ | ̈̃̈̃ | ̈̄̈̄ | ̈̅̈̅ | ̈̆̈̆ | ̈̇̈̇ | \ddddot | combining four dots above |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|------------------|------------------|------------------|------------------|------------------|------------------|----|-------------------------------|-----------------------------|
| U+020E7 | | \overline{x} | | | | | | <code>\annuity</code> | combining annuity symbol |
| U+020E9 | \overline{x} | \overline{x} | \overline{x} | \overline{x} | \overline{x} | \overline{x} | | <code>\widebridgeabove</code> | combining wide bridge above |
| U+020F0 | $\overset{*}{x}$ | $\overset{*}{x}$ | $\overset{*}{x}$ | $\overset{*}{x}$ | $\overset{*}{x}$ | $\overset{*}{x}$ | | <code>\asteraccent</code> | combining asterisk above |

8 Accents, `\mathaccent`

Note that accents will only be properly placed if used with an OpenType font with the necessary information.

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------------------|--------------------------------|
| U+00300 | \grave{x} | \grave{x} | \grave{x} | \grave{x} | \grave{x} | \grave{x} | \grave{x} | <code>\grave{p}</code> | grave accent |
| U+00301 | \acute{x} | \acute{x} | \acute{x} | \acute{x} | \acute{x} | \acute{x} | \acute{x} | <code>\acute{p}</code> | acute accent |
| U+00302 | \hat{x} | \hat{x} | \hat{x} | \hat{x} | \hat{x} | \hat{x} | \hat{x} | <code>\hat{p}</code> | circumflex accent |
| U+00303 | \tilde{x} | \tilde{x} | \tilde{x} | \tilde{x} | \tilde{x} | \tilde{x} | \tilde{x} | <code>\tilde{p}</code> | tilde |
| U+00304 | \bar{x} | \bar{x} | \bar{x} | \bar{x} | \bar{x} | \bar{x} | \bar{x} | <code>\bar{p}</code> | macron |
| U+00305 | \overline{x} | \overline{x} | \overline{x} | \overline{x} | \overline{x} | \overline{x} | \overline{x} | <code>\overbar</code> | overbar embellishment |
| U+00306 | \breve{x} | \breve{x} | \breve{x} | \breve{x} | \breve{x} | \breve{x} | \breve{x} | <code>\breve{p}</code> | breve |
| U+00307 | \dot{x} | \dot{x} | \dot{x} | \dot{x} | \dot{x} | \dot{x} | \dot{x} | <code>\dot{p}</code> | dot above |
| U+00308 | \ddot{x} | \ddot{x} | \ddot{x} | \ddot{x} | \ddot{x} | \ddot{x} | \ddot{x} | <code>\ddot{p}</code> | dieresis |
| U+00309 | $\overset{\circ}{x}$ | $\overset{\circ}{x}$ | $\overset{\circ}{x}$ | | $\overset{\circ}{x}$ | $\overset{\circ}{x}$ | $\overset{\circ}{x}$ | <code>\ovhook</code> | combining hook above |
| U+0030A | $\overset{\circ}{x}$ | $\overset{\circ}{x}$ | $\overset{\circ}{x}$ | $\overset{\circ}{x}$ | $\overset{\circ}{x}$ | $\overset{\circ}{x}$ | $\overset{\circ}{x}$ | <code>\ocirc</code> | ring |
| U+0030C | \check{x} | \check{x} | \check{x} | \check{x} | \check{x} | \check{x} | \check{x} | <code>\check{p}</code> | caron |
| U+00310 | | \textcircled{x} | | | | | \textcircled{x} | <code>\candra</code> | candrabindu (non-spacing) |
| U+00312 | | $\text{'}\!x$ | | | | | $\text{'}\!x$ | <code>\oturnedcomma</code> | combining turned comma above |
| U+00315 | | $\text{'}\!x$ | | | | | $\text{'}\!x$ | <code>\ocommatopright</code> | combining comma above right |
| U+0031A | | $\text{'}\!x$ | | | | | $\text{'}\!x$ | <code>\droang</code> | left angle above (non-spacing) |
| U+020D0 | \overleftarrow{x} | \overleftarrow{x} | \overleftarrow{x} | \overleftarrow{x} | \overleftarrow{x} | \overleftarrow{x} | \overleftarrow{x} | <code>\leftharpoonaccent</code> | combining left harpoon above |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|------------------|------------------|------------------|------------------|------------------|------------------|------------|----------------------------------|--------------------------------------|
| U+020D1 | \vec{x} | \vec{x} | \vec{x} | \vec{x} | \vec{x} | \vec{x} | \vec{x} | <code>\rightharpoonaccent</code> | combining right harpoon above |
| U+020D2 | \overline{x} | \overline{x} | \overline{x} | | \overline{x} | \overline{x} | | <code>\vertoverlay</code> | combining long vertical line overlay |
| U+020D7 | \vec{x} | \vec{x} | \vec{x} | \vec{x} | \vec{x} | \vec{x} | \vec{x} | <code>\vec{p}</code> | combining right arrow above |
| U+020DB | \ddot{x} | \ddot{x} | \ddot{x} | \ddot{x} | \ddot{x} | \ddot{x} | \ddot{x} | <code>\dddot</code> | combining three dots above |
| U+020DC | \ddot{x} | \ddot{x} | \ddot{x} | \ddot{x} | \ddot{x} | \ddot{x} | \ddot{x} | <code>\ddddot</code> | combining four dots above |
| U+020E7 | | \overline{x} | | | | | | <code>\annuity</code> | combining annuity symbol |
| U+020E9 | \overline{x} | \overline{x} | \overline{x} | \overline{x} | \overline{x} | \overline{x} | | <code>\widebridgeabove</code> | combining wide bridge above |
| U+020F0 | $\overset{*}{x}$ | $\overset{*}{x}$ | $\overset{*}{x}$ | $\overset{*}{x}$ | $\overset{*}{x}$ | $\overset{*}{x}$ | | <code>\asteraccent</code> | combining asterisk above |

9 Bottom accents, `\mathbotaccent`

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----|-----------------------------|---------------------------|
| U+020E8 | \underline{x} | \underline{x} | \underline{x} | \underline{x} | \underline{x} | \underline{x} | | <code>\threeunderdot</code> | combining triple underdot |

10 Bottom accents wide, `\mathbotaccentwide`















































































| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|--------------------------------------|--|
| U+00330 | $\widetilde{x+y}$ | $\widetilde{x+y}$ | $\widetilde{x+y}$ | $\widetilde{x+y}$ | $\widetilde{x+y}$ | $\widetilde{x+y}$ | $\widetilde{x+y}$ | <code>\wideutilde</code> | under tilde accent (multiple characters and non-spacing) |
| U+00332 | $\mathunderbar{x+y}$ | $\mathunderbar{x+y}$ | $\mathunderbar{x+y}$ | $\mathunderbar{x+y}$ | $\mathunderbar{x+y}$ | $\mathunderbar{x+y}$ | $\mathunderbar{x+y}$ | <code>\mathunderbar</code> | combining low line |
| U+0034D | $\overleftrightarrow{x+y}$ | $\overleftrightarrow{x+y}$ | $\overleftrightarrow{x+y}$ | $\overleftrightarrow{x+y}$ | $\overleftrightarrow{x+y}$ | $\overleftrightarrow{x+y}$ | $\overleftrightarrow{x+y}$ | <code>\underleftrighthararrow</code> | underleftrighthararrow accent |
| U+020EC | $\xrightarrow{x+y}$ | $\xrightarrow{x+y}$ | $\xrightarrow{x+y}$ | $\xrightarrow{x+y}$ | $\xrightarrow{x+y}$ | $\xrightarrow{x+y}$ | | <code>\underrightharpoondown</code> | combining rightwards harpoon with barb downwards |
| U+020ED | $\xleftarrow{x+y}$ | $\xleftarrow{x+y}$ | $\xleftarrow{x+y}$ | $\xleftarrow{x+y}$ | $\xleftarrow{x+y}$ | $\xleftarrow{x+y}$ | | <code>\underleftharpoondown</code> | combining leftwards harpoon with barb downwards |































































| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------------------------|-----------------------------|
| U+020EE | $\overleftarrow{x+y}$ | $\overleftarrow{x+y}$ | $\overleftarrow{x+y}$ | $\overleftarrow{x+y}$ | $\overleftarrow{x+y}$ | $\overleftarrow{x+y}$ | $\overleftarrow{x+y}$ | <code>\underleftarrow</code> | combining left arrow below |
| U+020EF | $\overrightarrow{x+y}$ | $\overrightarrow{x+y}$ | $\overrightarrow{x+y}$ | $\overrightarrow{x+y}$ | $\overrightarrow{x+y}$ | $\overrightarrow{x+y}$ | $\overrightarrow{x+y}$ | <code>\underrightarrow</code> | combining right arrow below |




















11 Big operators, `\mathop`













Of the operators shown below, a subset need to be flagged by unicode-math for `\nolimits` adjustments. The limits behaviour as specified by unicode-math are shown with grey subscripts and superscripts.

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------------------|----------------------------------|
| U+02140 | \sum_0^1 | \sum_0^1 | \sum_0^1 | \sum_0^1 | \sum_0^1 | \sum_0^1 | | <code>\Bbbsum</code> | double-struck n-ary summation |
| U+0220F | \prod_0^1 | \prod_0^1 | \prod_0^1 | \prod_0^1 | \prod_0^1 | \prod_0^1 | \prod_0^1 | <code>\prod^{(p)}</code> | product operator |
| U+02210 | \coprod_0^1 | \coprod_0^1 | \coprod_0^1 | \coprod_0^1 | \coprod_0^1 | \coprod_0^1 | \coprod_0^1 | <code>\coprod^{(p)}</code> | coproduct operator |
| U+02211 | \sum_0^1 | \sum_0^1 | \sum_0^1 | \sum_0^1 | \sum_0^1 | \sum_0^1 | \sum_0^1 | <code>\sum^{(p)}</code> | summation operator |
| U+0222B | \int_0^1 | \int_0^1 | \int_0^1 | \int_0^1 | \int_0^1 | \int_0^1 | \int_0^1 | <code>\int^{(p)}</code> | integral operator |
| U+0222C | \iint_0^1 | \iint_0^1 | \iint_0^1 | \iint_0^1 | \iint_0^1 | \iint_0^1 | \iint_0^1 | <code>\iint</code> | double integral operator |
| U+0222D | \iiint_0^1 | \iiint_0^1 | \iiint_0^1 | \iiint_0^1 | \iiint_0^1 | \iiint_0^1 | \iiint_0^1 | <code>\iiint</code> | triple integral operator |
| U+0222E | \oint_0^1 | \oint_0^1 | \oint_0^1 | \oint_0^1 | \oint_0^1 | \oint_0^1 | \oint_0^1 | <code>\oint^{(p)}</code> | contour integral operator |
| U+0222F | \oiint_0^1 | \oiint_0^1 | \oiint_0^1 | \oiint_0^1 | \oiint_0^1 | \oiint_0^1 | \oiint_0^1 | <code>\oiint</code> | double contour integral operator |

| usv | LM | S | E | K | T | G | Li | Macro | Description |
|---------|---|---|---|---|---|---|--|--------------------------------|----------------------------------|
| U+02230 |  |  |  |  |  |  |  | <code>\oiint</code> | triple contour integral operator |
| U+02231 |  |  |  |  |  |  |  | <code>\intclockwise</code> | clockwise integral |
| U+02232 |  |  |  |  |  |  |  | <code>\varointclockwise</code> | contour integral, clockwise |
| U+02233 |  |  |  |  |  |  |  | <code>\ointclockwise</code> | contour integral, anticlockwise |
| U+022C0 |  |  |  |  |  |  |  | <code>\bigwedge^{(p)}</code> | logical and operator |
| U+022C1 |  |  |  |  |  |  |  | <code>\bigvee^{(p)}</code> | logical or operator |
| U+022C2 |  |  |  |  |  |  |  | <code>\bigcap^{(p)}</code> | intersection operator |
| U+022C3 |  |  |  |  |  |  |  | <code>\bigcup^{(p)}</code> | union operator |
| U+027D5 | |  | | | | | | <code>\leftouterjoin</code> | left outer join |
| U+027D6 | |  | | | | | | <code>\rightouterjoin</code> | right outer join |
| U+027D7 | |  | | | | | | <code>\fullouterjoin</code> | full outer join |
| U+027D8 |  |  |  | |  |  | | <code>\bigbot</code> | large up tack |
| U+027D9 |  |  |  | |  |  | | <code>\bigtop</code> | large down tack |
| U+029F8 | |  | | | | | | <code>\xsol</code> | big solidus |
| U+029F9 | |  | | | | | | <code>\xbsol</code> | big reverse solidus |
| U+02A00 |  |  |  |  |  |  |  | <code>\bigodot^{(p)}</code> | n-ary circled dot operator |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|---|---|---|---|---|---|--|---------------------------------------|------------------------------------|
| U+02A01 |  |  |  |  |  |  |  | <code>\bigoplus^(p)</code> | n-ary circled plus operator |
| U+02A02 |  |  |  |  |  |  |  | <code>\bigotimes^(p)</code> | n-ary circled times operator |
| U+02A03 |  |  |  |  |  |  |  | <code>\bigcupdot</code> | n-ary union operator with dot |
| U+02A04 |  |  |  |  |  |  |  | <code>\biguplus^(p)</code> | n-ary union operator with plus |
| U+02A05 |  |  |  |  |  |  |  | <code>\bigsqcap</code> | n-ary square intersection operator |
| U+02A06 |  |  |  |  |  |  |  | <code>\bigsqcup^(p)</code> | n-ary square union operator |
| U+02A07 | |  | | | | | | <code>\conjquant</code> | two logical and operator |
| U+02A08 | |  | | | | | | <code>\disjquant</code> | two logical or operator |
| U+02A09 |  |  |  |  |  |  | | <code>\bigtimes</code> | n-ary times operator |
| U+02A0A | |  | | | | | | <code>\modtwosum</code> | modulo two sum |
| U+02A0B | |  | | | | | | <code>\sumint</code> | summation with integral |
| U+02A0C |  |  |  |  |  |  |  | <code>\iiint</code> | quadruple integral operator |
| U+02A0D | |  |  | | | | | <code>\intbar</code> | finite part integral |
| U+02A0E | |  | | | | | | <code>\intBar</code> | integral with double stroke |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|---|---|---|---|---|---|----|------------------------|---|
| U+02A0F | |  | |  | | | | <code>\fint</code> | integral average with slash |
| U+02A10 | |  | | | | | | <code>\cirfnint</code> | circulation function |
| U+02A11 |  |  |  | |  |  | | <code>\awint</code> | anticlockwise integration |
| U+02A12 | |  | | | | | | <code>\rppolint</code> | line integration with rectangular path around pole |
| U+02A13 | |  | | | | | | <code>\scpolint</code> | line integration with semicircular path around pole |
| U+02A14 | |  | | | | | | <code>\npolint</code> | line integration not including the pole |
| U+02A15 | |  | | | | | | <code>\pointint</code> | integral around a point operator |
| U+02A16 | |  | |  | | | | <code>\sqint</code> | quaternion integral operator |
| U+02A17 | |  | | | | | | <code>\intlarhk</code> | integral with leftwards arrow with hook |
| U+02A18 | |  | | | | | | <code>\intx</code> | integral with times sign |
| U+02A19 | |  | | | | | | <code>\intcap</code> | integral with intersection |
| U+02A1A | |  | | | | | | <code>\intcup</code> | integral with union |
| U+02A1B | |  | | | | | | <code>\upint</code> | integral with overbar |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|-------------------------------|---|
| U+02A1C | |  | | | | | | <code>\lowint</code> | integral with underbar |
| U+02A1D | |  |  |  | | | | <code>\Join</code> | join |
| U+02A1E | |  | | | | | | <code>\bigtriangleleft</code> | large left triangle operator |
| U+02A1F | |  | | | | | | <code>\zcmp</code> | z notation schema composition |
| U+02A20 | |  | | | | | | <code>\zpipe</code> | z notation schema piping |
| U+02A21 | |  | | | | | | <code>\zproject</code> | z notation schema projection |
| U+02AFC | |  | | | | | | <code>\biginterleave</code> | large triple vertical bar operator |
| U+02AFF | |  | | | | | | <code>\bigtalloblong</code> | n-ary white vertical bar |
| U+1EEF0 | |  | | | | | | <code>\arabicmaj</code> | arabic mathematical operator meem with hah with tatweel |
| U+1EEF1 | |  | | | | | | <code>\arabichad</code> | arabic mathematical operator hah with dal |

12 Binary relations, `\mathbin`

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|---|--|
| U+0002B | + | + | + | + | + | + | + | <code>\mathplus</code> | plus sign b: |
| U+000B1 | ± | ± | ± | ± | ± | ± | ± | <code>\pm^(p)</code> | plus-or-minus sign |
| U+000B7 | · | · | · | · | · | · | · | <code>\cdotp^(p)</code> | /centerdot b: middle dot |
| U+000D7 | × | × | × | × | × | × | × | <code>\times^(p)</code> | multiply sign |
| U+000F7 | ÷ | ÷ | ÷ | ÷ | ÷ | ÷ | ÷ | <code>\div^(p)</code> | divide sign |
| U+02020 | † | † | † | † | † | † | † | <code>\dagger^(p)</code> | dagger relation |
| U+02021 | ‡ | ‡ | ‡ | ‡ | ‡ | ‡ | ‡ | <code>\ddagger^(p)</code> | double dagger relation |
| U+02022 | ● | ● | ● | ● | ● | ● | ● | <code>\smbllkcircle</code> | /bullet b: round bullet, filled |
| U+02040 | | ⋈ | | ⋈ | | | | <code>\tieconcat</code> | character tie, z notation sequence concatenation |
| U+02044 | / | / | / | / | / | / | / | <code>\fracslash</code> | fraction slash |
| U+0214B | | ⌘ | ⌘ | ⌘ | | ⌘ | | <code>\upand</code> | turned ampersand |
| U+02212 | − | − | − | − | − | − | − | <code>\minus</code> | minus sign |
| U+02213 | ∓ | ∓ | ∓ | ∓ | ∓ | ∓ | ∓ | <code>\mp^(p)</code> | minus-or-plus sign |
| U+02214 | ⋈ | ⋈ | ⋈ | ⋈ | ⋈ | ⋈ | ⋈ | <code>\dotplus^(a)</code> | plus sign, dot above |
| U+02215 | / | / | / | / | / | / | / | <code>\divslash</code> | division slash |
| U+02216 | \ | \ | \ | \ | \ | \ | \ | <code>\smallsetminus^(a)</code> | small set minus (cf. reverse solidus) |
| U+02217 | * | * | * | * | * | * | * | <code>\ast^(p)</code> | centered asterisk |
| U+02218 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | <code>\vysmwhtcircle</code> | composite function (small circle) |
| U+02219 | ● | ● | ● | ● | ● | ● | ● | <code>\vysmbllkcircle</code> | bullet operator |
| U+02227 | ∧ | ∧ | ∧ | ∧ | ∧ | ∧ | ∧ | <code>\wedge^(p)</code> | /wedge /land b: logical and |
| U+02228 | ∨ | ∨ | ∨ | ∨ | ∨ | ∨ | ∨ | <code>\vee^(p)</code> | /vee /lor b: logical or |
| U+02229 | ∩ | ∩ | ∩ | ∩ | ∩ | ∩ | ∩ | <code>\cap^(p)</code> | intersection |
| U+0222A | ∪ | ∪ | ∪ | ∪ | ∪ | ∪ | ∪ | <code>\cup^(p)</code> | union or logical sum |





























| usv | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|---------------------------------|--|
| U+02238 | | | | | | | | <code>\dotminus</code> | minus sign, dot above |
| U+0223E | | | | | | | | <code>\invlazys</code> | most positive [inverted lazy s] |
| U+02240 | | | | | | | | <code>\wr^{(p)}</code> | wreath product |
| U+0228C | | | | | | | | <code>\cupleftarrow</code> | multiset |
| U+0228D | | | | | | | | <code>\cupdot</code> | union, with dot |
| U+0228E | | | | | | | | <code>\uplus^{(p)}</code> | plus sign in union |
| U+02293 | | | | | | | | <code>\sqcap^{(p)}</code> | square intersection |
| U+02294 | | | | | | | | <code>\sqcup^{(p)}</code> | square union |
| U+02295 | | | | | | | | <code>\oplus^{(p)}</code> | plus sign in circle |
| U+02296 | | | | | | | | <code>\ominus^{(p)}</code> | minus sign in circle |
| U+02297 | | | | | | | | <code>\otimes^{(p)}</code> | multiply sign in circle |
| U+02298 | | | | | | | | <code>\oslash^{(p)}</code> | solidus in circle |
| U+02299 | | | | | | | | <code>\odot^{(p)}</code> | middle dot in circle |
| U+0229A | | | | | | | | <code>\circledcirc^{(a)}</code> | small circle in circle |
| U+0229B | | | | | | | | <code>\circledast^{(a)}</code> | asterisk in circle |
| U+0229C | | | | | | | | <code>\circledequal</code> | equal in circle |
| U+0229D | | | | | | | | <code>\circleddash^{(a)}</code> | hyphen in circle |
| U+0229E | | | | | | | | <code>\boxplus^{(a)}</code> | plus sign in box |
| U+0229F | | | | | | | | <code>\boxminus^{(a)}</code> | minus sign in box |
| U+022A0 | | | | | | | | <code>\boxtimes^{(a)}</code> | multiply sign in box |
| U+022A1 | | | | | | | | <code>\boxdot^{(a)}</code> | /dotsquare /boxdot b: small dot in box |
| U+022BA | | | | | | | | <code>\intercal^{(a)}</code> | intercal |
| U+022BB | | | | | | | | <code>\veebar^{(a)}</code> | logical or, bar below (large vee); exclusive disjunction |
| U+022BC | | | | | | | | <code>\barwedge^{(a)}</code> | bar, wedge (large wedge) |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|---|--|
| U+022BD | ▽ | ▽ | ▽ | ▽ | ▽ | ▽ | | <code>\barvee</code> | bar, vee (large vee) |
| U+022C4 | ◇ | ◇ | ◇ | ◇ | ◇ | ◇ | | <code>\smwhtdiamond</code> | white diamond |
| U+022C5 | ⋅ | ⋅ | ⋅ | ⋅ | ⋅ | ⋅ | | <code>\cdot^(p)</code> | small middle dot |
| U+022C6 | ★ | ★ | ★ | ★ | ★ | ★ | | <code>\star^(p)</code> | small star, filled, low |
| U+022C7 | ⋈ | ⋈ | ⋈ | ⋈ | ⋈ | ⋈ | | <code>\divideontimes^(a)</code> | division on times |
| U+022C9 | ⌞ | ⌞ | ⌞ | ⌞ | ⌞ | ⌞ | | <code>\ltimes^(a)</code> | times sign, left closed |
| U+022CA | ⌟ | ⌟ | ⌟ | ⌟ | ⌟ | ⌟ | | <code>\rtimes^(a)</code> | times sign, right closed |
| U+022CB | ⌋ | ⌋ | ⌋ | ⌋ | ⌋ | ⌋ | | <code>\leftthreetimes^(a)</code> | left semidirect product |
| U+022CC | ⌌ | ⌌ | ⌌ | ⌌ | ⌌ | ⌌ | | <code>\rightthreetimes^(a)</code> | right semidirect product |
| U+022CE | ⋈ | ⋈ | ⋈ | ⋈ | ⋈ | ⋈ | | <code>\curlyvee^(a)</code> | curly logical or |
| U+022CF | ⋈ | ⋈ | ⋈ | ⋈ | ⋈ | ⋈ | | <code>\curlywedge^(a)</code> | curly logical and |
| U+022D2 | ⌒ | ⌒ | ⌒ | ⌒ | ⌒ | ⌒ | | <code>\Cap^(a)</code> | /cap /doublecap b: double intersection |
| U+022D3 | ⌔ | ⌔ | ⌔ | ⌔ | ⌔ | ⌔ | | <code>\Cup^(a)</code> | /cup /doublecup b: double union |
| U+02305 | ⌞ | ⌞ | ⌞ | ⌞ | ⌞ | | | <code>\varbarwedge</code> | /barwedge b: logical and, bar above [projective (bar over small wedge)] |
| U+02306 | ⌞ | ⌞ | ⌞ | ⌞ | ⌞ | | | <code>\vardoublebarwedge</code> | /doublebarwedge b: logical and, double bar above [perspective (double bar over small wedge)] |
| U+0233D | | ⊖ | | | | | | <code>\obar</code> | circle with vertical bar |
| U+025B3 | △ | △ | △ | △ | △ | △ | △ | <code>\bigtriangleup^(p)</code> | big up triangle, open |
| U+025B7 | ▷ | ▷ | ▷ | ▷ | ▷ | ▷ | ▷ | <code>\triangleright^(p)</code> | (large) right triangle, open; z notation range restriction |
| U+025C1 | ◁ | ◁ | ◁ | ◁ | ◁ | ◁ | ◁ | <code>\triangleleft^(p)</code> | (large) left triangle, open; z notation domain restriction |
| U+025CB | ○ | ○ | ○ | ○ | ○ | ○ | ○ | <code>\mdlgwhtcircle</code> | medium large circle |
| U+025EB | | ⏚ | | ⏚ | | | | <code>\boxbar</code> | vertical bar in box |
| U+027C7 | | ∨ | | | | | | <code>\veedot</code> | or with dot inside |
| U+027D1 | | ∧ | | | | | | <code>\wedgedot</code> | and with dot |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|---------------------------------------|--|
| U+027E0 | | | | | | | | <code>\lozengeminus</code> | lozenge divided by horizontal rule |
| U+027E1 | | | | | | | | <code>\concavediamond</code> | white concave-sided diamond |
| U+027E2 | | | | | | | | <code>\concavediamondtickleft</code> | white concave-sided diamond with leftwards tick |
| U+027E3 | | | | | | | | <code>\concavediamondtickright</code> | white concave-sided diamond with rightwards tick |
| U+027E4 | | | | | | | | <code>\whitesquaretickleft</code> | white square with leftwards tick |
| U+027E5 | | | | | | | | <code>\whitesquaretickright</code> | white square with rightwards tick |
| U+029B5 | | | | | | | | <code>\circlehbar</code> | circle with horizontal bar |
| U+029B6 | | | | | | | | <code>\circledvert</code> | circled vertical bar |
| U+029B7 | | | | | | | | <code>\circledparallel</code> | circled parallel |
| U+029B8 | | | | | | | | <code>\obslash</code> | circled reverse solidus |
| U+029B9 | | | | | | | | <code>\operp</code> | circled perpendicular |
| U+029C0 | | | | | | | | <code>\olessthan</code> | circled less-than |
| U+029C1 | | | | | | | | <code>\ogreaterthan</code> | circled greater-than |
| U+029C4 | | | | | | | | <code>\boxdiag</code> | squared rising diagonal slash |
| U+029C5 | | | | | | | | <code>\boxbslash</code> | squared falling diagonal slash |
| U+029C6 | | | | | | | | <code>\boxast</code> | squared asterisk |
| U+029C7 | | | | | | | | <code>\boxcircle</code> | squared small circle |
| U+029C8 | | | | | | | | <code>\boxbox</code> | squared square |
| U+029CD | | | | | | | | <code>\trianglelerifs</code> | triangle with serifs at bottom |
| U+029D6 | | | | | | | | <code>\hourglass</code> | white hourglass |
| U+029D7 | | | | | | | | <code>\blackhourglass</code> | black hourglass |
| U+029E2 | | | | | | | | <code>\shuffle</code> | shuffle product |
| U+029EB | | | | | | | | <code>\mdlgblklozenge</code> | black lozenge |
| U+029F5 | | | | | | | | <code>\setminus^(p)</code> | reverse solidus operator |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|----------------|---|---|---|---|----|-------------|--|
| U+029F6 | | 7 | | | | | 7 | \dsol | solidus with overbar |
| U+029F7 | | \ | | | | | \ | \rsolbar | reverse solidus with horizontal stroke |
| U+029FA | | ⦶ | | | | | | \doubleplus | double plus |
| U+029FB | | ⦶⦶ | | | | | | \tripleplus | triple plus |
| U+029FE | | ⦶ | | | | | | \tplus | tiny |
| U+029FF | | ⦶ | | | | | | \tminus | miny |
| U+02A22 | | ⦶ | | | | | | \ringplus | plus sign with small circle above |
| U+02A23 | | ⦶ | | | | | | \plushat | plus sign with circumflex accent above |
| U+02A24 | | ⦶ | | | | | | \simplus | plus sign with tilde above |
| U+02A25 | | ⦶ | | | | | | \plusdot | plus sign with dot below |
| U+02A26 | | ⦶ | | | | | | \plussim | plus sign with tilde below |
| U+02A27 | | ⦶ ₂ | | | | | | \plussubtwo | plus sign with subscript two |
| U+02A28 | | ⦶ | | | | | | \plustrif | plus sign with black triangle |
| U+02A29 | | ⦶ | | | | | | \commaminus | minus sign with comma above |
| U+02A2A | | ⦶ | | | | | | \minusdot | minus sign with dot below |
| U+02A2B | | ⦶ | | | | | | \minusfdots | minus sign with falling dots |
| U+02A2C | | ⦶ | | | | | | \minusrdots | minus sign with rising dots |
| U+02A2D | | ⦶ | | | | | | \oplushrim | plus sign in left half circle |
| U+02A2E | | ⦶ | | | | | | \oplusrhrim | plus sign in right half circle |
| U+02A2F | × | × | × | × | × | × | × | \vectimes | vector or cross product |
| U+02A30 | | × | | | | | | \dottimes | multiplication sign with dot above |
| U+02A31 | | × | | | | | | \timesbar | multiplication sign with underbar |
| U+02A32 | | × | | | | | | \btimes | semidirect product with bottom closed |
| U+02A33 | | ⌘ | | | | | | \smashtimes | smash product |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|-----------------------|--|
| U+02A34 | | ⊗ | | | | | | \otimeslhrim | multiplication sign in left half circle |
| U+02A35 | | ⊗ | | | | | | \otimesrhrim | multiplication sign in right half circle |
| U+02A36 | | ⊗ | | | | | ⊗ | \otimesshat | circled multiplication sign with circumflex accent |
| U+02A37 | | ⊗ | | | | | | \Otimes | multiplication sign in double circle |
| U+02A38 | | ⊕ | | | | | | \odiv | circled division sign |
| U+02A39 | | ⊕ | | | | | | \triangleplus | plus sign in triangle |
| U+02A3A | | ⊖ | | | | | | \triangleminus | minus sign in triangle |
| U+02A3B | | ⊗ | | | | | | \triangleletimes | multiplication sign in triangle |
| U+02A3C | | ⌋ | | | | | | \intprod | interior product |
| U+02A3D | | ⌋ | | | | | | \intprodr | righthand interior product |
| U+02A3E | | ⋈ | | | | | ⋈ | \fcmp | z notation relational composition |
| U+02A3F | ⋈ | ⋈ | ⋈ | ⋈ | ⋈ | ⋈ | ⋈ | \amalg ^(p) | amalgamation or coproduct |
| U+02A40 | | ⋈ | | | | | | \capdot | intersection with dot |
| U+02A41 | | ⋈ | | | | | | \uminus | union with minus sign |
| U+02A42 | | ⋈ | | | | | | \barcup | union with overbar |
| U+02A43 | | ⋈ | | | | | | \barcap | intersection with overbar |
| U+02A44 | | ⋈ | | | | | | \capwedge | intersection with logical and |
| U+02A45 | | ⋈ | | | | | | \cupvee | union with logical or |
| U+02A46 | | ⋈ | | | | | | \cupovercap | union above intersection |
| U+02A47 | | ⋈ | | | | | | \capovercup | intersection above union |
| U+02A48 | | ⋈ | | | | | | \cupbarcap | union above bar above intersection |
| U+02A49 | | ⋈ | | | | | | \capbarcup | intersection above bar above union |
| U+02A4A | | ⋈ | | | | | | \twocups | union beside and joined with union |
| U+02A4B | | ⋈ | | | | | | \twocaps | intersection beside and joined with intersection |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|--|--|
| U+02A4C | |  | | | | | | <code>\closedvarcup</code> | closed union with serifs |
| U+02A4D | |  | | | | | | <code>\closedvarcap</code> | closed intersection with serifs |
| U+02A4E | |  | | | | | | <code>\Sqcap</code> | double square intersection |
| U+02A4F | |  | | | | | | <code>\Sqcup</code> | double square union |
| U+02A50 | |  | | | | | | <code>\closedvarcupsmashprod</code> | closed union with serifs and smash product |
| U+02A51 | |  | | | | | | <code>\wedgeodot</code> | logical and with dot above |
| U+02A52 | |  | | | | | | <code>\veeodot</code> | logical or with dot above |
| U+02A53 | |  | | | | | | <code>\Wedge</code> | double logical and |
| U+02A54 | |  | | | | | | <code>\Vee</code> | double logical or |
| U+02A55 | |  | | | | | | <code>\wedgeonwedge</code> | two intersecting logical and |
| U+02A56 | |  | | | | | | <code>\veeonvee</code> | two intersecting logical or |
| U+02A57 | |  | | | | | | <code>\bigslopedvee</code> | sloping large or |
| U+02A58 | |  | | | | | | <code>\bigslopedwedge</code> | sloping large and |
| U+02A5A | |  | | | | | | <code>\wedgemidvert</code> | logical and with middle stem |
| U+02A5B | |  | | | | | | <code>\veemidvert</code> | logical or with middle stem |
| U+02A5C | |  | | | | | | <code>\midbarwedge</code> | logical and with horizontal dash |
| U+02A5D | |  | | | | | | <code>\midbarvee</code> | logical or with horizontal dash |
| U+02A5E | |  |  |  | | | | <code>\doublebarwedge^(a)</code> | logical and with double overbar |
| U+02A5F | |  |  |  | | | | <code>\wedgebar</code> | logical and with underbar |
| U+02A60 | |  | | | | | | <code>\wedgedoublebar</code> | logical and with double underbar |
| U+02A61 | |  | | | | | | <code>\varveebar</code> | small vee with underbar |
| U+02A62 | |  | | | | | | <code>\doublebarvee</code> | logical or with double overbar |
| U+02A63 | |  | | | | | | <code>\veedoublebar</code> | logical or with double underbar |
| U+02A64 | |  | | | | | | <code>\dsup</code> | z notation domain antirestriction |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|-----|---|---|---|---|----|-----------------------------|--|
| U+02A65 | | ➤ | | | | | | <code>\rsub</code> | z notation range antirestriction |
| U+02A71 | | ≡ | | | | | | <code>\eqqplus</code> | equals sign above plus sign |
| U+02A72 | | ± | | | | | | <code>\pluseqq</code> | plus sign above equals sign |
| U+02AF4 | | | | | | | | <code>\interleave</code> | triple vertical bar binary relation |
| U+02AF5 | | ≡ | | | | | | <code>\nhVvert</code> | triple vertical bar with horizontal stroke |
| U+02AF6 | | : | | | | | | <code>\threedotcolon</code> | triple colon operator |
| U+02AFB | | /// | | | | | | <code>\trslash</code> | triple solidus binary relation |
| U+02AFD | | // | | | | | | <code>\sslash</code> | double solidus operator |
| U+02AFE | | | | | | | | <code>\talloblong</code> | white vertical bar |

























































13 Ordinary symbols, \mathord

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|-----|-----|-----|-----|-----|-----|-----|---------------------------|--|
| U+00023 | # | # | # | # | # | # | # | \mathoctothorpe | number sign |
| U+00024 | \$ | \$ | \$ | \$ | \$ | \$ | \$ | \mathdollar | dollar sign |
| U+00025 | % | % | % | % | % | % | % | \mathpercent | percent sign |
| U+00026 | & | & | & | & | & | & | & | \mathampersand | ampersand |
| U+0002E | . | . | . | . | . | . | . | \mathperiod | full stop, period |
| U+0002F | / | / | / | / | / | / | / | \mathslash | solidus |
| U+0003F | ? | ? | ? | ? | ? | ? | ? | \mathquestion | question mark |
| U+00040 | @ | @ | @ | @ | @ | @ | @ | \mathatsign | commercial at |
| U+0005C | \ | \ | \ | \ | \ | \ | \ | \backslash ^(p) | reverse solidus |
| U+000A3 | £ | £ | £ | £ | £ | £ | £ | \mathsterling | pound sign |
| U+000A5 | ¥ | ¥ | ¥ | ¥ | ¥ | ¥ | ¥ | \mathyen | yen sign |
| U+000A7 | § | § | § | § | § | § | § | \mathsection | section symbol |
| U+000AC | ¬ | ¬ | ¬ | ¬ | ¬ | ¬ | ¬ | \neg ^(p) | /neg /lnot not sign |
| U+000B6 | ¶ | ¶ | ¶ | ¶ | ¶ | ¶ | ¶ | \mathparagraph | paragraph symbol |
| U+001B5 | | Z | Z | Z | | | Z | \Zbar | impedance (latin capital letter z with stroke) |
| U+003F6 | | ε | ε | ε | | | ε | \upbackepsilon | greek reversed lunate epsilon symbol |
| U+02015 | — | — | — | | — | — | — | \horizbar | horizontal bar |
| U+02017 | = | = | = | | = | = | = | \twolowline | double low line (spacing) |
| U+02025 | | .. | | | | | .. | \enleadertwodots | double baseline dot (en leader) |
| U+02026 | ... | ... | ... | ... | ... | ... | ... | \unicodeellipsis | ellipsis (horizontal) |
| U+02032 | ′ | ′ | ′ | ′ | ′ | ′ | ′ | \prime ^(p) | prime or minute, not superscripted |
| U+02033 | ″ | ″ | | | ″ | ″ | ″ | \dprime | double prime or second, not superscripted |

| usv | LM | S | E | K | T | G | Li | Macro | Description |
|---------|------|------|----|----|------|------|------|---------------------------|--|
| U+02034 | ''' | ''' | | | ''' | ''' | ''' | \trprime | triple prime (not superscripted) |
| U+02035 | \' | \' | \' | \' | \' | \' | \' | \backprime ^(a) | reverse prime, not superscripted |
| U+02036 | '' | '' | | | '' | '' | '' | \backdprime | double reverse prime, not superscripted |
| U+02037 | ''' | ''' | | | ''' | ''' | ''' | \backtrprime | triple reverse prime, not superscripted |
| U+02038 | | ^ | | | | | | \caretinsert | caret (insertion mark) |
| U+0203C | | !! | | | | | !! | \Exclam | double exclamation mark |
| U+02043 | | ▪ | | | | | | \hyphenbullet | rectangle, filled (hyphen bullet) |
| U+02047 | | ?? | | | | | ?? | \Question | double question mark |
| U+02057 | '''' | '''' | | | '''' | '''' | '''' | \qprime | quadruple prime, not superscripted |
| U+020AC | € | € | € | € | € | € | € | \euro | euro sign |
| U+020DD | ◯ | ◯ | | | ◯ | ◯ | | \enclosecircle | combining enclosing circle |
| U+020DE | ◻ | ◻ | | | ◻ | ◻ | | \enclosesquare | combining enclosing square |
| U+020DF | ◊ | ◊ | | | ◊ | ◊ | | \enclosediamond | combining enclosing diamond |
| U+020E4 | △ | △ | | | △ | △ | | \enclosetriangle | combining enclosing upward pointing triangle |
| U+02107 | ℰ | ℰ | ℰ | ℰ | ℰ | ℰ | | \Eulerconst | euler constant |
| U+0210E | ℏ | ℏ | ℏ | ℏ | ℏ | ℏ | ℏ | \Planckconst | planck constant |
| U+02127 | ℧ | ℧ | ℧ | ℧ | ℧ | ℧ | ℧ | \mho | conductance |
| U+02132 | | ƒ | ƒ | ƒ | | | | \Finv ^(a) | turned capital f |
| U+0213C | ⸰ | ⸰ | ⸰ | | ⸰ | ⸰ | | \Bbbpi | double-struck small pi |
| U+02141 | | ɢ | ɢ | ɢ | | | | \Game ^(a) | turned sans-serif capital g |
| U+02142 | | ɬ | | | | | | \sansLturned | turned sans-serif capital l |
| U+02143 | | ɿ | | | | | | \sansLmirrored | reversed sans-serif capital l |
| U+02144 | | ʎ | | | | | | \Yup | turned sans-serif capital y |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|---|--|
| U+02145 | | | | | | | | <code>\mitBbbD</code> | double-struck italic capital d |
| U+02146 | | | | | | | | <code>\mitBbbd</code> | double-struck italic small d |
| U+02147 | | | | | | | | <code>\mitBbbe</code> | double-struck italic small e |
| U+02148 | | | | | | | | <code>\mitBbbi</code> | double-struck italic small i |
| U+02149 | | | | | | | | <code>\mitBbbj</code> | double-struck italic small j |
| U+0214A | | | | | | | | <code>\PropertyLine</code> | property line |
| U+021A8 | | | | | | | | <code>\updownarrowbar</code> | up down arrow with base (perpendicular) |
| U+021B4 | | | | | | | | <code>\linefeed</code> | rightwards arrow with corner downwards |
| U+021B5 | | | | | | | | <code>\carriagereturn</code> | downwards arrow with corner leftward = carriage return |
| U+021B8 | | | | | | | | <code>\barovernorthwestarrow</code> | north west arrow to long bar |
| U+021B9 | | | | | | | | <code>\barleftarrowrightarrowbar</code> | leftwards arrow to bar over rightwards arrow to bar |
| U+021BA | | | | | | | | <code>\acwopencirclearrow</code> | anticlockwise open circle arrow |
| U+021BB | | | | | | | | <code>\cwopencirclearrow</code> | clockwise open circle arrow |
| U+021DE | | | | | | | | <code>\nHuparrow</code> | upwards arrow with double stroke |
| U+021DF | | | | | | | | <code>\nHdownarrow</code> | downwards arrow with double stroke |
| U+021E0 | | | | | | | | <code>\leftdasharrow</code> | leftwards dashed arrow |
| U+021E1 | | | | | | | | <code>\updasharrow</code> | upwards dashed arrow |
| U+021E2 | | | | | | | | <code>\rightdasharrow</code> | rightwards dashed arrow |
| U+021E3 | | | | | | | | <code>\downdasharrow</code> | downwards dashed arrow |
| U+021E6 | | | | | | | | <code>\leftwhitearrow</code> | leftwards white arrow |
| U+021E7 | | | | | | | | <code>\upwhitearrow</code> | upwards white arrow |
| U+021E8 | | | | | | | | <code>\rightwhitearrow</code> | rightwards white arrow |
| U+021E9 | | | | | | | | <code>\downwhitearrow</code> | downwards white arrow |














































































| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|--------------------------------|---------------------------------|
| U+021EA | | ↱ | | | | ↱ | ↱ | \whitearrowupfrombar | upwards white arrow from bar |
| U+02200 | ∀ | ∀ | ∀ | ∀ | ∀ | ∀ | ∀ | \forallall ^(p) | for all |
| U+02201 | ∁ | ∁ | ∁ | ∁ | ∁ | ∁ | ∁ | \complement ^(a) | complement sign |
| U+02203 | ∃ | ∃ | ∃ | ∃ | ∃ | ∃ | ∃ | \existsexists ^(p) | at least one exists |
| U+02204 | ∄ | ∄ | ∄ | ∄ | ∄ | ∄ | ∄ | \nexists ^(a) | negated exists |
| U+02205 | ∅ | ∅ | ∅ | ∅ | ∅ | ∅ | ∅ | \varnothing ^(a) | circle, slash |
| U+02206 | Δ | Δ | Δ | Δ | Δ | Δ | Δ | \increment | laplacian (delta; nabla^2) |
| U+0220E | ■ | ■ | ■ | ■ | ■ | ■ | ■ | \QED | end of proof |
| U+0221A | √ | √ | √ | √ | √ | √ | √ | \surd ^(p) | radical |
| U+0221E | ∞ | ∞ | ∞ | ∞ | ∞ | ∞ | ∞ | \infty ^(p) | infinity |
| U+0221F | ⊥ | ⊥ | ⊥ | ⊥ | ⊥ | ⊥ | ⊥ | \rightangle | right (90 degree) angle |
| U+02220 | ∠ | ∠ | ∠ | ∠ | ∠ | ∠ | ∠ | \angle ^(p) | angle |
| U+02221 | ∠ | ∠ | ∠ | ∠ | ∠ | ∠ | ∠ | \measuredangle ^(a) | angle-measured |
| U+02222 | ∠ | ∠ | ∠ | ∠ | ∠ | ∠ | ∠ | \sphericalangle ^(a) | angle-spherical |
| U+02234 | ∴ | ∴ | ∴ | ∴ | ∴ | ∴ | ∴ | \therefore ^(a) | therefore |
| U+02235 | ∵ | ∵ | ∵ | ∵ | ∵ | ∵ | ∵ | \because ^(a) | because |
| U+0223F | ∿ | ∿ | ∿ | ∿ | ∿ | ∿ | ∿ | \sinewave | sine wave |
| U+022A4 | ⤴ | ⤴ | ⤴ | ⤴ | ⤴ | ⤴ | ⤴ | \top ^(p) | top |
| U+022A5 | ⤵ | ⤵ | ⤵ | ⤵ | ⤵ | ⤵ | ⤵ | \bot ^(p) | bottom |
| U+022B9 | ⊙ | ⊙ | ⊙ | | ⊙ | ⊙ | | \hermitmatrix | hermitian conjugate matrix |
| U+022BE | ⊙ | ⊙ | ⊙ | | ⊙ | ⊙ | | \measuredrightangle | right angle-measured [with arc] |
| U+022BF | ⊙ | ⊙ | ⊙ | | ⊙ | ⊙ | | \varlrrtriangle | right triangle |
| U+022EF | ⋯ | ⋯ | ⋯ | ⋯ | ⋯ | ⋯ | ⋯ | \unicodcdots | three dots, centered |
| U+02300 | ∅ | ∅ | ∅ | | ∅ | ∅ | ∅ | \diameter | diameter sign |









































| usv | LM | S | E | K | T | G | Li | Macro | Description |
|---------|---|---|---|---|---|---|---|------------------------|--|
| U+02302 | |  | | | | |  | \house | house |
| U+02310 |  |  |  |  |  |  |  | \invnot | reverse not |
| U+02311 | |  | | | | | | \sqlozenge | square lozenge |
| U+02312 | |  | | | | | | \profline | profile of a line |
| U+02313 | |  | | | | | | \profsurf | profile of a surface |
| U+02317 | |  | | | | | | \viewdata | viewdata square |
| U+02319 |  |  |  |  |  |  | | \turnednot | turned not sign |
| U+02320 |  |  | | |  | |  | \inttop | top half integral |
| U+02321 |  |  | | |  | |  | \intbottom | bottom half integral |
| U+0232C | |  | | | | | | \varhexagonlrbonds | six carbon ring, corner down, double bonds lower right etc |
| U+02332 | |  | | | | | | \conictaper | conical taper |
| U+02336 | |  | | | | | | \topbot | top and bottom |
| U+02340 | |  | | | | | | \APLnotbackslash | apl functional symbol backslash bar |
| U+02353 | |  | | | | | | \APLboxupcaret | boxed up caret |
| U+02370 | |  | | | | | | \APLboxquestion | boxed question mark |
| U+0237C | |  | | | | | | \rangledownzigzagarrow | right angle with downwards zigzag arrow |
| U+02394 | |  | | | | | | \hexagon | horizontal benzene ring [hexagon flat open] |
| U+0239B |  |  |  |  |  |  |  | \lparenuend | left parenthesis upper hook |
| U+0239C |  |  |  |  |  |  |  | \lparenextender | left parenthesis extension |
| U+0239D |  |  |  |  |  |  |  | \lparenlend | left parenthesis lower hook |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|------------------------------|-----------------------------------|
| U+0239E | | | | | | | | <code>\rparenuend</code> | right parenthesis upper hook |
| U+0239F | | | | | | | | <code>\rparenextender</code> | right parenthesis extension |
| U+023A0 | | | | | | | | <code>\rparenlend</code> | right parenthesis lower hook |
| U+023A1 | | | | | | | | <code>\lbrackuend</code> | left square bracket upper corner |
| U+023A2 | | | | | | | | <code>\lbrackextender</code> | left square bracket extension |
| U+023A3 | | | | | | | | <code>\lbracklend</code> | left square bracket lower corner |
| U+023A4 | | | | | | | | <code>\rbrackuend</code> | right square bracket upper corner |
| U+023A5 | | | | | | | | <code>\rbrackextender</code> | right square bracket extension |
| U+023A6 | | | | | | | | <code>\rbracklend</code> | right square bracket lower corner |
| U+023A7 | | | | | | | | <code>\lbraceuend</code> | left curly bracket upper hook |
| U+023A8 | | | | | | | | <code>\lbracemid</code> | left curly bracket middle piece |
| U+023A9 | | | | | | | | <code>\lbracelend</code> | left curly bracket lower hook |
| U+023AA | | | | | | | | <code>\vbraceextender</code> | curly bracket extension |
| U+023AB | | | | | | | | <code>\rbraceuend</code> | right curly bracket upper hook |
| U+023AC | | | | | | | | <code>\rbracemid</code> | right curly bracket middle piece |
| U+023AD | | | | | | | | <code>\rbracelend</code> | right curly bracket lower hook |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|--------------------|---|
| U+023AE | | | | | | | | \intextender | integral extension |
| U+023AF | | - | | | | | - | \harrowextender | horizontal line extension (used to extend arrows) |
| U+023B2 | | | | | | | | \sumtop | summation top |
| U+023B3 | | | | | | | | \sumbottom | summation bottom |
| U+023B6 | | | | | | | | \bbrktbrk | bottom square bracket over top square bracket |
| U+023B7 | | | | | | | | \sqrtbottom | radical symbol bottom |
| U+023B8 | | | | | | | | \lvboxline | left vertical box line |
| U+023B9 | | | | | | | | \rvboxline | right vertical box line |
| U+023CE | | | | | | | | \varcarriagereturn | return symbol |
| U+023E0 | | | | | | | | \obrbrak | top tortoise shell bracket (mathematical use) |
| U+023E1 | | | | | | | | \ubrbrak | bottom tortoise shell bracket (mathematical use) |
| U+023E2 | | | | | | | | \trapezium | white trapezium |
| U+023E3 | | | | | | | | \benzenr | benzene ring with circle |
| U+023E4 | | | | | | | | \strns | straightness |
| U+023E5 | | | | | | | | \fltns | flatness |
| U+023E6 | | | | | | | | \accurrent | ac current |
| U+023E7 | | | | | | | | \elinters | electrical intersection |
| U+02422 | | | | | | | | \blanksymbol | blank symbol |
| U+02423 | | | | | | | | \mathvisiblespace | open box |
| U+02506 | | | | | | | | \bdtriplevdash | doubly broken vert |
| U+02580 | | | | | | | | \blockuphalf | upper half block |






























































| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|---|---|---|---|---|---|---|----------------------|--|
| U+02584 | |  | | | | | | \blocklowhalf | lower half block |
| U+02588 |  |  | | |  |  | | \blockfull | full block |
| U+0258C | |  | | | | | | \blocklefthalf | left half block |
| U+02590 | |  | | | | | | \blockrighthalf | right half block |
| U+02591 |  |  | | |  | | | \blockqtrshaded | 25% shaded block |
| U+02592 |  |  | | |  | | | \blockhalfshaded | 50% shaded block |
| U+02593 |  |  | | |  | | | \blockthreeqtrshaded | 75% shaded block |
| U+025A0 |  |  |  |  |  |  |  | \mdlgblksquare | square, filled |
| U+025A1 |  |  |  |  |  |  |  | \mdlgwhtsquare | square, open |
| U+025A2 | |  | | | | | | \squoval | white square with rounded corners |
| U+025A3 | |  | | | |  | | \blackinwhitesquare | white square containing black small square |
| U+025A4 | |  | | | | | | \squarehfill | square, horizontal rule filled |
| U+025A5 | |  | | | | | | \squarevfill | square, vertical rule filled |
| U+025A6 | |  | | | | | | \squarehvfill | square with orthogonal crosshatch fill |
| U+025A7 | |  | | | | | | \squarenwsefill | square, nw-to-se rule filled |
| U+025A8 | |  | | | | | | \squareneswfill | square, ne-to-sw rule filled |
| U+025A9 | |  | | | | | | \squarecrossfill | square with diagonal crosshatch fill |
| U+025AA |  |  |  |  |  |  | | \smbllksquare | /blacksquare - sq bullet, filled |
| U+025AB |  |  |  |  |  |  | | \smwhtsquare | white small square |
| U+025AC |  |  | |  |  |  | | \hrectangleblack | black rectangle |
| U+025AD |  |  | | |  |  | | \hrectangle | horizontal rectangle, open |
| U+025AE | |  | | | |  | | \vrectangleblack | black vertical rectangle |
| U+025AF | |  | | | |  | | \vrectangle | rectangle, white (vertical) |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|---|---|---|---|---|---|---|--|--|
| U+025B0 | |  | | | | | | <code>\parallelogramblack</code> | black parallelogram |
| U+025B1 | |  | | | | | | <code>\parallelogram</code> | parallelogram, open |
| U+025B2 |  |  |  |  |  |  |  | <code>\bigblacktriangleup</code> | black up-pointing triangle |
| U+025B4 | |  |  |  | | | | <code>\blacktriangle^(a)</code> | up triangle, filled |
| U+025B6 |  |  |  |  |  |  |  | <code>\blacktriangleright^(a)</code> | (large) right triangle, filled |
| U+025B8 | |  | | | | | | <code>\smallblacktriangleright</code> | right triangle, filled |
| U+025B9 | |  | |  | | | | <code>\smalltriangleright</code> | right triangle, open |
| U+025BA | |  | | | | | | <code>\blackpointerright</code> | black right-pointing pointer |
| U+025BB | |  | | | | | | <code>\whitepointerright</code> | white right-pointing pointer |
| U+025BC |  |  |  |  |  |  |  | <code>\bigblacktriangledown</code> | big down triangle, filled |
| U+025BD |  |  |  |  |  |  |  | <code>\bigtriangledown^(p)</code> | big down triangle, open |
| U+025BE | |  |  |  | | | | <code>\blacktriangledown^(a)</code> | down triangle, filled |
| U+025BF | |  |  |  | | | | <code>\triangledown^(a)</code> | down triangle, open |
| U+025C0 |  |  |  |  |  |  |  | <code>\blacktriangleleft^(a)</code> | (large) left triangle, filled |
| U+025C2 | |  |  | | | | | <code>\smallblacktriangleleft</code> | left triangle, filled |
| U+025C3 | |  |  |  | | | | <code>\smalltriangleleft</code> | left triangle, open |
| U+025C4 | |  | | | | | | <code>\blackpointerleft</code> | black left-pointing pointer |
| U+025C5 | |  | | | | | | <code>\whitepointerleft</code> | white left-pointing pointer |
| U+025C6 | |  | |  | |  |  | <code>\mdlgblkdiamond</code> | black diamond |
| U+025C7 | |  |  | | |  |  | <code>\mdlgwhtdiamond</code> | white diamond; diamond, open |
| U+025C8 | |  | | | |  | | <code>\blackinwhitediamond</code> | white diamond containing black small diamond |
| U+025C9 | |  | | | |  |  | <code>\fisheye</code> | fisheye |
| U+025CA |  |  | | |  |  |  | <code>\mdlgwhtlozenge</code> | lozenge or total mark |
| U+025CC | |  | | | | | | <code>\dottedcircle</code> | dotted circle |














| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|---|---|---|---|---|---|---|---------------------------------------|---|
| U+025CD | |  | | | | | | <code>\circlevertfill</code> | circle with vertical fill |
| U+025CE | |  | | | |  |  | <code>\bullseye</code> | bullseye |
| U+025CF |  |  |  |  |  |  |  | <code>\mdlgblkcircle</code> | circle, filled |
| U+025D0 | |  | | | |  |  | <code>\circlelefthalfblack</code> | circle, filled left half [harvey ball] |
| U+025D1 | |  | | | |  |  | <code>\cyclerighthalfblack</code> | circle, filled right half |
| U+025D2 | |  | | | |  |  | <code>\circlebottomhalfblack</code> | circle, filled bottom half |
| U+025D3 | |  | | | |  |  | <code>\circletophalfblack</code> | circle, filled top half |
| U+025D4 | |  | | | |  |  | <code>\circleurquadblack</code> | circle with upper right quadrant black |
| U+025D5 | |  | | | |  |  | <code>\blackcircleulquadwhite</code> | circle with all but upper left quadrant black |
| U+025D6 | |  | | | |  |  | <code>\blacklefthalfcircle</code> | left half black circle |
| U+025D7 | |  | | | |  |  | <code>\blackrighthalfcircle</code> | right half black circle |
| U+025D8 | |  | | | | | | <code>\inversebullet</code> | inverse bullet |
| U+025D9 | |  | | | | | | <code>\inversewhitecircle</code> | inverse white circle |
| U+025DA | |  | | | | | | <code>\invwhiteupperhalfcircle</code> | upper half inverse white circle |
| U+025DB | |  | | | | | | <code>\invwhitelowerhalfcircle</code> | lower half inverse white circle |
| U+025DC | |  | | | | | | <code>\ularc</code> | upper left quadrant circular arc |
| U+025DD | |  | | | | | | <code>\urarc</code> | upper right quadrant circular arc |
| U+025DE | |  | | | | | | <code>\lrarc</code> | lower right quadrant circular arc |
| U+025DF | |  | | | | | | <code>\llarc</code> | lower left quadrant circular arc |
| U+025E0 | |  | | | | | | <code>\topsemicircle</code> | upper half circle |
| U+025E1 | |  | | | | | | <code>\botsemicircle</code> | lower half circle |
| U+025E2 | |  | | | | | | <code>\lrblacktriangle</code> | lower right triangle, filled |
| U+025E3 | |  | | | | | | <code>\llblacktriangle</code> | lower left triangle, filled |
| U+025E4 | |  | | | | | | <code>\ulblacktriangle</code> | upper left triangle, filled |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|---------------------|--|
| U+025E5 | | ▴ | | | | | | \urblacktriangle | upper right triangle, filled |
| U+025E6 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | \smwhtcircle | white bullet |
| U+025E7 | | ◻ | | | | ◻ | | \squareleftblack | square, filled left half |
| U+025E8 | | ◻ | | | | ◻ | | \squarerightblack | square, filled right half |
| U+025E9 | | ◼ | | | | ◼ | | \squareulblack | square, filled top left corner |
| U+025EA | | ◼ | | | | ◼ | | \squarelrblack | square, filled bottom right corner |
| U+025EC | | ◈ | | | | | | \trianglecdot | triangle with centered dot |
| U+025ED | | ◄ | | | | ◄ | | \triangleleftblack | up-pointing triangle with left half black |
| U+025EE | | ◄ | | | | ◄ | | \trianglerightblack | up-pointing triangle with right half black |
| U+025EF | ○ | ○ | ○ | ○ | ○ | ○ | | \lgwhtcircle | large circle |
| U+025F0 | | ◻ | | | | | | \squareulquad | white square with upper left quadrant |
| U+025F1 | | ◻ | | | | | | \squarellquad | white square with lower left quadrant |
| U+025F2 | | ◻ | | | | | | \squarelrquad | white square with lower right quadrant |
| U+025F3 | | ◻ | | | | | | \squareurquad | white square with upper right quadrant |
| U+025F4 | | ⌚ | | | | | | \circleulquad | white circle with upper left quadrant |
| U+025F5 | | ⌚ | | | | | | \circlellquad | white circle with lower left quadrant |
| U+025F6 | | ⌚ | | | | | | \circlelrquad | white circle with lower right quadrant |
| U+025F7 | | ⌚ | | | | | | \circleurquad | white circle with upper right quadrant |
| U+025F8 | | ◀ | | | | | | \ultriangle | upper left triangle |
| U+025F9 | | ▶ | | | | | | \urtriangle | upper right triangle |
| U+025FA | | ◀ | | | | | | \lltriangle | lower left triangle |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|-----------------------------|-------------------------------|
| U+025FB | | ◻ | ◻ | ◻ | | | | \mdwhtsquare | white medium square |
| U+025FC | | ◼ | ◼ | ◼ | | | | \mdblksquare | black medium square |
| U+025FD | | ◻ | | | | | | \mdsmwhtsquare | white medium small square |
| U+025FE | | ◼ | | | | | | \mdsmbksquare | black medium small square |
| U+025FF | | ◡ | | | | | | \lrrtriangle | lower right triangle |
| U+02605 | | ★ | ★ | ★ | | ★ | ★ | \bigstar ^(a) | star, filled |
| U+02606 | | ☆ | | | | ☆ | | \bigwhitestar | star, open |
| U+02609 | | ☼ | | | | | ☼ | \astrosun | sun |
| U+02621 | | ⤿ | | | | | | \danger | dangerous bend (caution sign) |
| U+0263B | | ☺ | | | | | ☹ | \blacksmiley | black smiling face |
| U+0263C | | ☼ | | | | | ☼ | \sun | white sun with rays |
| U+0263D | | ☾ | | | | | ☾ | \rightmoon | first quarter moon |
| U+0263E | | ☾ | | | | | ☾ | \leftmoon | last quarter moon |
| U+02640 | | ♀ | | | | | ♀ | \female | venus, female |
| U+02642 | | ♂ | | | | | ♂ | \male | mars, male |
| U+02660 | ♠ | ♠ | ♠ | ♠ | ♠ | | ♠ | \spadesuit ^(p) | spades suit symbol |
| U+02661 | ♥ | ♥ | ♥ | ♥ | ♥ | | ♥ | \heartsuit ^(p) | heart suit symbol |
| U+02662 | ♦ | ♦ | ♦ | ♦ | ♦ | | ♦ | \diamondsuit ^(p) | diamond suit symbol |
| U+02663 | ♣ | ♣ | ♣ | ♣ | ♣ | | ♣ | \clubsuit ^(p) | club suit symbol |
| U+02664 | ♠ | ♠ | ♠ | ♠ | ♠ | | ♠ | \varspadesuit | spade, white (card suit) |
| U+02665 | ♥ | ♥ | ♥ | ♥ | ♥ | | ♥ | \varheartsuit | filled heart (card suit) |
| U+02666 | ♦ | ♦ | ♦ | ♦ | ♦ | | ♦ | \vardiamondsuit | filled diamond (card suit) |
| U+02667 | ♣ | ♣ | ♣ | ♣ | ♣ | | ♣ | \varclubsuit | club, white (card suit) |
| U+02669 | | ♪ | | | | | ♪ | \quarternote | music note (sung text sign) |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|---|---|---|---|---|---|---|-------------------------------------|-----------------------------------|
| U+0266A |  |  | |  |  | |  | <code>\eighthnote</code> | eighth note |
| U+0266B | |  | | | | |  | <code>\twonotes</code> | beamed eighth notes |
| U+0266D |  |  |  |  |  | |  | <code>\flat^(p)</code> | musical flat |
| U+0266E |  |  |  |  |  | |  | <code>\natural^(p)</code> | music natural |
| U+0266F |  |  |  |  |  | |  | <code>\sharp^(p)</code> | musical sharp |
| U+0267E | |  | | | |  | | <code>\acidfree</code> | permanent paper sign |
| U+02680 | |  | | | | | | <code>\dicei</code> | die face-1 |
| U+02681 | |  | | | | | | <code>\diceii</code> | die face-2 |
| U+02682 | |  | | | | | | <code>\diceiii</code> | die face-3 |
| U+02683 | |  | | | | | | <code>\diceiv</code> | die face-4 |
| U+02684 | |  | | | | | | <code>\dicev</code> | die face-5 |
| U+02685 | |  | | | | | | <code>\dicevi</code> | die face-6 |
| U+02686 | |  | | | | | | <code>\circledrightdot</code> | white circle with dot right |
| U+02687 | |  | | | | | | <code>\circledtwodots</code> | white circle with two dots |
| U+02688 | |  | | | | | | <code>\blackcircledrightdot</code> | black circle with white dot right |
| U+02689 | |  | | | | | | <code>\blackcircledtwodots</code> | black circle with two white dots |
| U+026A5 | |  | | | | |  | <code>\Hermaphrodite</code> | male and female sign |
| U+026AA | |  |  |  | | | | <code>\mdwhtcircle</code> | medium white circle |
| U+026AB | |  |  |  | | | | <code>\mdblkcircle</code> | medium black circle |
| U+026AC | |  |  |  | | |  | <code>\mdsmwhtcircle</code> | medium small white circle |
| U+026B2 | |  | | | | | | <code>\neuter</code> | neuter |
| U+02713 |  |  |  |  |  | | | <code>\checkmark</code> | tick, check mark |
| U+02720 |  |  |  |  |  | | | <code>\maltese</code> | maltese cross |
| U+0272A | |  | | | | | | <code>\circledstar</code> | circled white star |

| usv | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|------------------------------------|--|
| U+02736 | | ✳ | | | | | | <code>\varstar</code> | six pointed black star |
| U+0273D | | ✳ | | | | | | <code>\dingasterisk</code> | heavy teardrop-spoked asterisk |
| U+0279B | | ➡ | | | | | | <code>\draftingarrow</code> | right arrow with bold head (drafting) |
| U+027C0 | | ∟ | | | | | | <code>\threedangle</code> | three dimensional angle |
| U+027C1 | | △ | | | | | | <code>\whiteinwhitetriangle</code> | white triangle containing small white triangle |
| U+027C3 | | ⊆ | | | | | | <code>\subsetcirc</code> | open subset |
| U+027C4 | | ⊇ | | | | | | <code>\supsetcirc</code> | open superset |
| U+027D0 | | ◊ | | ◊ | | | | <code>\diamondcdot</code> | white diamond with centred dot |
| U+0292B | | ↗ | | | | | | <code>\rdiagovfdiag</code> | rising diagonal crossing falling diagonal |
| U+0292C | | ↘ | | | | | | <code>\fdiagovrdiag</code> | falling diagonal crossing rising diagonal |
| U+0292D | | ↗ | | | | | | <code>\seovnearrow</code> | south east arrow crossing north east arrow |
| U+0292E | | ↘ | | | | | | <code>\neovsearrow</code> | north east arrow crossing south east arrow |
| U+0292F | | ↗ | | | | | | <code>\fdiagovnearrow</code> | falling diagonal crossing north east arrow |
| U+02930 | | ↘ | | | | | | <code>\rdiagovsearrow</code> | rising diagonal crossing south east arrow |
| U+02931 | | ↗ | | | | | | <code>\neovnwarrow</code> | north east arrow crossing north west arrow |
| U+02932 | | ↘ | | | | | | <code>\nwovnearrow</code> | north west arrow crossing north east arrow |
| U+02934 | | ↗ | ↗ | | | | | <code>\uprightcurvearrow</code> | arrow pointing rightwards then curving upwards |
| U+02935 | | ↘ | ↘ | | | | | <code>\downrightcurvedarrow</code> | arrow pointing rightwards then curving downwards |
| U+02981 | | ● | ● | ● | | | | <code>\mdsmbkcircle</code> | z notation spot |
| U+02999 | | ⋮ | | | | | | <code>\fourvdots</code> | dotted fence |
| U+0299A | | ⋈ | | | | | | <code>\vzigzag</code> | vertical zigzag line |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|---------------------------------|--|
| U+0299B | |  | | | | | | <code>\measuredangleleft</code> | measured angle opening left |
| U+0299C | |  | | | | | | <code>\rightanglesqr</code> | right angle variant with square |
| U+0299D | |  | | | | | | <code>\rightanglemdot</code> | measured right angle with dot |
| U+0299E | |  | | | | | | <code>\angles</code> | angle with s inside |
| U+0299F | |  | | | | | | <code>\angdnr</code> | acute angle |
| U+029A0 | |  | | | | | | <code>\gtlpar</code> | spherical angle opening left |
| U+029A1 | |  | | | | | | <code>\sphericalangleup</code> | spherical angle opening up |
| U+029A2 | |  | | | | | | <code>\turnangle</code> | turned angle |
| U+029A3 | |  | | | | | | <code>\revangle</code> | reversed angle |
| U+029A4 | |  | | | | | | <code>\angleubar</code> | angle with underbar |
| U+029A5 | |  | | | | | | <code>\revangleubar</code> | reversed angle with underbar |
| U+029A6 | |  | | | | | | <code>\wideangledown</code> | oblique angle opening up |
| U+029A7 | |  | | | | | | <code>\wideangleup</code> | oblique angle opening down |
| U+029A8 | |  | | | | | | <code>\measanglerutone</code> | measured angle with open arm ending in arrow pointing up and right |
| U+029A9 | |  | | | | | | <code>\measanglelutonw</code> | measured angle with open arm ending in arrow pointing up and left |
| U+029AA | |  | | | | | | <code>\measanglerdtose</code> | measured angle with open arm ending in arrow pointing down and right |
| U+029AB | |  | | | | | | <code>\measangleldtosw</code> | measured angle with open arm ending in arrow pointing down and left |
| U+029AC | |  | | | | | | <code>\measangleurtone</code> | measured angle with open arm ending in arrow pointing right and up |
| U+029AD | |  | | | | | | <code>\measangleultonw</code> | measured angle with open arm ending in arrow pointing left and up |
| U+029AE | |  | | | | | | <code>\measangledrtose</code> | measured angle with open arm ending in arrow pointing right and down |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|----------------------------------|---|
| U+029AF | |  | | | | | | <code>\measangledltosw</code> | measured angle with open arm ending in arrow pointing left and down |
| U+029B0 | |  | | | | | | <code>\revemptyset</code> | reversed empty set |
| U+029B1 | |  | | | | | | <code>\emptysettoobar</code> | empty set with overbar |
| U+029B2 | |  | | | | | | <code>\emptysettocirc</code> | empty set with small circle above |
| U+029B3 | |  | | | | | | <code>\emptysettoarr</code> | empty set with right arrow above |
| U+029B4 | |  | | | | | | <code>\emptysettoarrl</code> | empty set with left arrow above |
| U+029BA | |  | | | | | | <code>\obot</code> | circle divided by horizontal bar and top half divided by vertical bar |
| U+029BB | |  | | | | | | <code>\olcross</code> | circle with superimposed x |
| U+029BC | |  | | | | | | <code>\odotslashdot</code> | circled anticlockwise-rotated division sign |
| U+029BD | |  | | | | | | <code>\uparrowwncircle</code> | up arrow through circle |
| U+029BE | |  | | | | | | <code>\circledwhitebullet</code> | circled white bullet |
| U+029BF | |  | | | | | | <code>\circledbullet</code> | circled bullet |
| U+029C2 | |  | | | | | | <code>\cirscir</code> | circle with small circle to the right |
| U+029C3 | |  | | | | | | <code>\cirE</code> | circle with two horizontal strokes to the right |
| U+029C9 | |  | | | | | | <code>\boxonbox</code> | two joined squares |
| U+029CA | |  | | | | | | <code>\triangleodot</code> | triangle with dot above |
| U+029CB | |  | | | | | | <code>\triangleubar</code> | triangle with underbar |
| U+029CC | |  | | | | | | <code>\triangles</code> | s in triangle |
| U+029DC | |  | | | | | | <code>\iinfin</code> | incomplete infinity |
| U+029DD | |  | | | | | | <code>\tieinfty</code> | tie over infinity |
| U+029DE | |  | | | | | | <code>\nvinfty</code> | infinity negated with vertical bar |
| U+029E0 | |  | | | | | | <code>\laplac</code> | square with contoured outline |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|----|---|---|---|---|----|-------------------------|--|
| U+029E7 | | ⚡ | | | | | | \thermod | thermodynamic |
| U+029E8 | | ▼ | | | | | | \downtriangleleftblack | down-pointing triangle with left half black |
| U+029E9 | | ▼ | | | | | | \downtrianglerightblack | down-pointing triangle with right half black |
| U+029EA | | ⬇ | | | | | | \blackdiamonddownarrow | black diamond with down arrow |
| U+029EC | | ⬇ | | | | | | \circledownarrow | white circle with down arrow |
| U+029ED | | ⬇ | | | | | | \blackcircledownarrow | black circle with down arrow |
| U+029EE | | ⬮ | | | | | | \errbarsquare | error-barred white square |
| U+029EF | | ⬮ | | | | | | \errbarblacksquare | error-barred black square |
| U+029F0 | | ⬮ | | | | | | \errbardiamond | error-barred white diamond |
| U+029F1 | | ⬮ | | | | | | \errbarblackdiamond | error-barred black diamond |
| U+029F2 | | ⬮ | | | | | | \errbarcircle | error-barred white circle |
| U+029F3 | | ⬮ | | | | | | \errbarblackcircle | error-barred black circle |
| U+02AE1 | | ⊥s | | | | | | \perps | perpendicular with s |
| U+02AF1 | | ⚓ | | | | | | \topcir | down tack with circle below |
| U+02B12 | | ◼ | | | | | | \squaretopblack | square with top half black |
| U+02B13 | | ◼ | | | | | | \squarebotblack | square with bottom half black |
| U+02B14 | | ◼ | | | | | | \squareurblack | square with upper right diagonal half black |
| U+02B15 | | ◼ | | | | | | \squarellblack | square with lower left diagonal half black |
| U+02B16 | | ◈ | | | | | | \diamondleftblack | diamond with left half black |
| U+02B17 | | ◈ | | | | | | \diamondrightblack | diamond with right half black |
| U+02B18 | | ◈ | | | | | | \diamondtopblack | diamond with top half black |
| U+02B19 | | ◈ | | | | | | \diamondbotblack | diamond with bottom half black |
| U+02B1A | ◻ | ◻ | | | ◻ | ◻ | | \dottedsquare | dotted square |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|------------------|--------------------------|
| U+02B1B | | ■ | | | | | | \lgblksquare | black large square |
| U+02B1C | | □ | | | | | | \lgwhtsquare | white large square |
| U+02B1D | | ▪ | ▪ | ▪ | | | | \vysmblksquare | black very small square |
| U+02B1E | | ▫ | ▫ | ▫ | | | | \vysmwhtsquare | white very small square |
| U+02B1F | | ⬠ | | | | | | \pentagonblack | black pentagon |
| U+02B20 | | ⬡ | | | | | | \pentagon | white pentagon |
| U+02B21 | | ⬢ | | | | | | \varhexagon | white hexagon |
| U+02B22 | | ⬤ | | | | | | \varhexagonblack | black hexagon |
| U+02B23 | | ⬦ | | | | | | \hexagonblack | horizontal black hexagon |
| U+02B24 | | ● | ● | ● | | | | \lgblkcircle | black large circle |
| U+02B25 | | ◆ | | ◆ | | | | \mdblkdiamond | black medium diamond |
| U+02B26 | | ◇ | | ◇ | | | | \mdwhtdiamond | white medium diamond |
| U+02B27 | | ◈ | | | | | | \mdblklozenge | black medium lozenge |
| U+02B28 | | ◊ | | ◊ | | | | \mdwhtlozenge | white medium lozenge |
| U+02B29 | | ◈ | | | | | | \smbldiamond | black small diamond |
| U+02B2A | | ◊ | | | | | | \smbklozenge | black small lozenge |
| U+02B2B | | ◊ | | | | | | \smwhtlozenge | white small lozenge |
| U+02B2C | | ◐ | | | | | | \blkhorzoval | black horizontal ellipse |
| U+02B2D | | ◯ | | | | | | \whthorzoval | white horizontal ellipse |
| U+02B2E | | ◑ | | | | | | \blkvertoval | black vertical ellipse |
| U+02B2F | | ○ | | | | | | \whtvertoval | white vertical ellipse |
| U+02B50 | | ☆ | | | | | | \medwhitestar | white medium star |
| U+02B51 | | ★ | | | | | | \medblackstar | black medium star |
| U+02B52 | | ☆ | | | | | | \smwhitestar | white small star |































































































































































| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|---------------------|---------------------------------------|
| U+02B53 | | ◼ | | | | | | \rightpentagonblack | black right-pointing pentagon |
| U+02B54 | | ◻ | | | | | | \rightpentagon | white right-pointing pentagon |
| U+03012 | | 〒 | | | | | | \postalmark | postal mark |
| U+03030 | | ㄣ | | | | | | \hzigzag | zigzag |
| U+1D7CE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \mbfzero | mathematical bold digit 0 |
| U+1D7CF | 1 | 1 | 1 | 1 | 1 | 1 | 1 | \mbfone | mathematical bold digit 1 |
| U+1D7D0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | \mbftwo | mathematical bold digit 2 |
| U+1D7D1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | \mbfthree | mathematical bold digit 3 |
| U+1D7D2 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | \mbffour | mathematical bold digit 4 |
| U+1D7D3 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | \mbffive | mathematical bold digit 5 |
| U+1D7D4 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | \mbfsix | mathematical bold digit 6 |
| U+1D7D5 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | \mbfseven | mathematical bold digit 7 |
| U+1D7D6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | \mbfeight | mathematical bold digit 8 |
| U+1D7D7 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \mbfnine | mathematical bold digit 9 |
| U+1D7D8 | 0 | 0 | 0 | | 0 | 0 | 0 | \Bbbzero | mathematical double-struck digit 0 |
| U+1D7D9 | 1 | 1 | 1 | | 1 | 1 | 1 | \Bbbone | mathematical double-struck digit 1 |
| U+1D7DA | 2 | 2 | 2 | | 2 | 2 | 2 | \Bbbtwo | mathematical double-struck digit 2 |
| U+1D7DB | 3 | 3 | 3 | | 3 | 3 | 3 | \Bbbthree | mathematical double-struck digit 3 |
| U+1D7DC | 4 | 4 | 4 | | 4 | 4 | 4 | \Bbbfour | mathematical double-struck digit 4 |
| U+1D7DD | 5 | 5 | 5 | | 5 | 5 | 5 | \Bbbfive | mathematical double-struck digit 5 |
| U+1D7DE | 6 | 6 | 6 | | 6 | 6 | 6 | \Bbbsix | mathematical double-struck digit 6 |
| U+1D7DF | 7 | 7 | 7 | | 7 | 7 | 7 | \Bbbseven | mathematical double-struck digit 7 |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|----------------|--------------------------------------|
| U+1D7E0 | 8 | 8 | 8 | | 8 | 8 | 8 | \Bbheight | mathematical double-struck digit 8 |
| U+1D7E1 | 9 | 9 | 9 | | 9 | 9 | 9 | \Bbbnine | mathematical double-struck digit 9 |
| U+1D7E2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \msanszero | mathematical sans-serif digit 0 |
| U+1D7E3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | \msansone | mathematical sans-serif digit 1 |
| U+1D7E4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | \msanstwo | mathematical sans-serif digit 2 |
| U+1D7E5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | \msanstthree | mathematical sans-serif digit 3 |
| U+1D7E6 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | \msansfour | mathematical sans-serif digit 4 |
| U+1D7E7 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | \msansfive | mathematical sans-serif digit 5 |
| U+1D7E8 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | \msanssix | mathematical sans-serif digit 6 |
| U+1D7E9 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | \msansseven | mathematical sans-serif digit 7 |
| U+1D7EA | 8 | 8 | 8 | 8 | 8 | 8 | 8 | \msanseight | mathematical sans-serif digit 8 |
| U+1D7EB | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \msansnine | mathematical sans-serif digit 9 |
| U+1D7EC | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \mbfsanszero | mathematical sans-serif bold digit 0 |
| U+1D7ED | 1 | 1 | 1 | 1 | 1 | 1 | 1 | \mbfsansone | mathematical sans-serif bold digit 1 |
| U+1D7EE | 2 | 2 | 2 | 2 | 2 | 2 | 2 | \mbfsanstwo | mathematical sans-serif bold digit 2 |
| U+1D7EF | 3 | 3 | 3 | 3 | 3 | 3 | 3 | \mbfsanstthree | mathematical sans-serif bold digit 3 |
| U+1D7F0 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | \mbfsansfour | mathematical sans-serif bold digit 4 |
| U+1D7F1 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | \mbfsansfive | mathematical sans-serif bold digit 5 |
| U+1D7F2 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | \mbfsanssix | mathematical sans-serif bold digit 6 |
| U+1D7F3 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | \mbfsansseven | mathematical sans-serif bold digit 7 |
| U+1D7F4 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | \mbfsanseight | mathematical sans-serif bold digit 8 |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|--------------|--------------------------------------|
| U+1D7F5 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \mbfsansnine | mathematical sans-serif bold digit 9 |
| U+1D7F6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | \mttzero | mathematical monospace digit 0 |
| U+1D7F7 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | \mttone | mathematical monospace digit 1 |
| U+1D7F8 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | \mttwo | mathematical monospace digit 2 |
| U+1D7F9 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | \mtthree | mathematical monospace digit 3 |
| U+1D7FA | 4 | 4 | 4 | 4 | 4 | 4 | 4 | \mtfour | mathematical monospace digit 4 |
| U+1D7FB | 5 | 5 | 5 | 5 | 5 | 5 | 5 | \mtfive | mathematical monospace digit 5 |
| U+1D7FC | 6 | 6 | 6 | 6 | 6 | 6 | 6 | \mtsix | mathematical monospace digit 6 |
| U+1D7FD | 7 | 7 | 7 | 7 | 7 | 7 | 7 | \mtseven | mathematical monospace digit 7 |
| U+1D7FE | 8 | 8 | 8 | 8 | 8 | 8 | 8 | \mtteight | mathematical monospace digit 8 |
| U+1D7FF | 9 | 9 | 9 | 9 | 9 | 9 | 9 | \mttnine | mathematical monospace digit 9 |

14 Relation symbols, `\mathrel`

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|---|------------------------------------|
| U+0003C | < | < | < | < | < | < | < | <code>\less</code> | less-than sign r: |
| U+0003D | = | = | = | = | = | = | = | <code>\equal</code> | equals sign r: |
| U+0003E | > | > | > | > | > | > | > | <code>\greater</code> | greater-than sign r: |
| U+02050 | | ⊂ | | | | | | <code>\closure</code> | close up |
| U+02190 | ← | ← | ← | ← | ← | ← | ← | <code>\leftarrow^(p)</code> | /leftarrow /gets a: leftward arrow |
| U+02191 | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | ↑ | <code>\uparrow^(p)</code> | upward arrow |
| U+02192 | → | → | → | → | → | → | → | <code>\rightarrow^(p)</code> | /rightarrow /to a: rightward arrow |
| U+02193 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | <code>\downarrow^(p)</code> | downward arrow |
| U+02194 | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | <code>\leftrightarrow^(p)</code> | left and right arrow |
| U+02195 | ↕ | ↕ | ↕ | ↕ | ↕ | ↕ | ↕ | <code>\updownarrow^(p)</code> | up and down arrow |
| U+02196 | ↖ | ↖ | ↖ | ↖ | ↖ | ↖ | ↖ | <code>\nwarrow^(p)</code> | nw pointing arrow |
| U+02197 | ↗ | ↗ | ↗ | ↗ | ↗ | ↗ | ↗ | <code>\nearrow^(p)</code> | ne pointing arrow |
| U+02198 | ↘ | ↘ | ↘ | ↘ | ↘ | ↘ | ↘ | <code>\searrow^(p)</code> | se pointing arrow |
| U+02199 | ↙ | ↙ | ↙ | ↙ | ↙ | ↙ | ↙ | <code>\swarrow^(p)</code> | sw pointing arrow |
| U+0219A | ↚ | ↚ | ↚ | ↚ | ↚ | ↚ | ↚ | <code>\nleftarrow^(a)</code> | not left arrow |
| U+0219B | ↛ | ↛ | ↛ | ↛ | ↛ | ↛ | ↛ | <code>\nrightarrow^(a)</code> | not right arrow |
| U+0219C | | ↪ | | ↪ | | ↪ | | <code>\leftwvearrow</code> | left arrow-wavy |
| U+0219D | | ↩ | | ↩ | | ↩ | | <code>\rightwvearrow</code> | right arrow-wavy |
| U+0219E | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | <code>\twoheadleftarrow^(a)</code> | left two-headed arrow |
| U+0219F | ↕ | ↕ | ↕ | ↕ | ↕ | ↕ | ↕ | <code>\twoheaduparrow</code> | up two-headed arrow |
| U+021A0 | ↗ | ↗ | ↗ | ↗ | ↗ | ↗ | ↗ | <code>\twoheadrightarrow^(a)</code> | right two-headed arrow |
| U+021A1 | ↘ | ↘ | ↘ | ↘ | ↘ | ↘ | ↘ | <code>\twoheaddownarrow</code> | down two-headed arrow |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|---|---|---|---|---|---|---|---|--|
| U+021A2 |  |  |  |  |  |  |  | <code>\leftarrowtail^(a)</code> | left arrow-tailed |
| U+021A3 |  |  |  |  |  |  |  | <code>\rightarrowtail^(a)</code> | right arrow-tailed |
| U+021A4 |  |  |  |  |  |  |  | <code>\mapsfrom</code> | maps to, leftward |
| U+021A5 |  |  |  |  |  |  |  | <code>\mapsup</code> | maps to, upward |
| U+021A6 |  |  |  |  |  |  |  | <code>\mapsto^(p)</code> | maps to, rightward |
| U+021A7 |  |  |  |  |  |  |  | <code>\mapsdown</code> | maps to, downward |
| U+021A9 |  |  |  |  |  |  |  | <code>\hookleftarrow^(p)</code> | left arrow-hooked |
| U+021AA |  |  |  |  |  |  |  | <code>\hookrightarrow^(p)</code> | right arrow-hooked |
| U+021AB |  |  |  |  |  |  |  | <code>\looparrowleft^(a)</code> | left arrow-looped |
| U+021AC |  |  |  |  |  |  |  | <code>\looparrowright^(a)</code> | right arrow-looped |
| U+021AD |  |  |  |  |  |  | | <code>\leftrightsquigarrow^(a)</code> | left and right arr-wavy |
| U+021AE |  |  |  |  |  |  |  | <code>\nleftarrow^(a)</code> | not left and right arrow |
| U+021AF | |  | | | |  | | <code>\downzigzagarrow</code> | downwards zigzag arrow |
| U+021B0 |  |  |  |  |  |  | | <code>\Lsh^(a)</code> | /lsh a: |
| U+021B1 |  |  |  |  |  |  | | <code>\Rsh^(a)</code> | /rsh a: |
| U+021B2 |  |  |  |  |  |  | | <code>\Ldsh</code> | left down angled arrow |
| U+021B3 |  |  |  |  |  |  | | <code>\Rdsh</code> | right down angled arrow |
| U+021B6 |  |  |  |  |  |  |  | <code>\curvearrowleft^(a)</code> | left curved arrow |
| U+021B7 |  |  |  |  |  |  |  | <code>\curvearrowright^(a)</code> | right curved arrow |
| U+021BC |  |  |  |  |  |  |  | <code>\leftharpoonup^(p)</code> | left harpoon-up |
| U+021BD |  |  |  |  |  |  |  | <code>\leftharpoondown^(p)</code> | left harpoon-down |
| U+021BE |  |  |  |  |  |  |  | <code>\upharpoonright^(a)</code> | /upharpoonright /restriction a: up harpoon-right |
| U+021BF |  |  |  |  |  |  |  | <code>\upharpoonleft^(a)</code> | up harpoon-left |
| U+021C0 |  |  |  |  |  |  |  | <code>\rightharpoonup^(p)</code> | right harpoon-up |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|---|----------------------------------|
| U+021C1 | | | | | | | | <code>\rightharpoondown^(p)</code> | right harpoon-down |
| U+021C2 | | | | | | | | <code>\downharpoonright^(a)</code> | down harpoon-right |
| U+021C3 | | | | | | | | <code>\downharpoonleft^(a)</code> | down harpoon-left |
| U+021C4 | | | | | | | | <code>\rightleftarrows^(a)</code> | right arrow over left arrow |
| U+021C5 | | | | | | | | <code>\updownarrows</code> | up arrow, down arrow |
| U+021C6 | | | | | | | | <code>\leftrightarrows^(a)</code> | left arrow over right arrow |
| U+021C7 | | | | | | | | <code>\leftleftarrows^(a)</code> | two left arrows |
| U+021C8 | | | | | | | | <code>\upuparrows^(a)</code> | two up arrows |
| U+021C9 | | | | | | | | <code>\rightrightarrows^(a)</code> | two right arrows |
| U+021CA | | | | | | | | <code>\downdownarrows^(a)</code> | two down arrows |
| U+021CB | | | | | | | | <code>\leftrightharpoons^(a)</code> | left harpoon over right |
| U+021CC | | | | | | | | <code>\rightleftharpoons^(l)</code> | right harpoon over left |
| U+021CD | | | | | | | | <code>\nLeftarrow^(a)</code> | not implied by |
| U+021CE | | | | | | | | <code>\nLeftrightarrow^(a)</code> | not left and right double arrows |
| U+021CF | | | | | | | | <code>\nRightarrow^(a)</code> | not implies |
| U+021D0 | | | | | | | | <code>\Leftarrow^(p)</code> | is implied by |
| U+021D1 | | | | | | | | <code>\Uparrow^(p)</code> | up double arrow |
| U+021D2 | | | | | | | | <code>\Rightarrow^(p)</code> | implies |
| U+021D3 | | | | | | | | <code>\Downarrow^(p)</code> | down double arrow |
| U+021D4 | | | | | | | | <code>\Leftrightarrow^(p)</code> | left and right double arrow |
| U+021D5 | | | | | | | | <code>\Updownarrow^(p)</code> | up and down double arrow |
| U+021D6 | | | | | | | | <code>\Nwarrow</code> | nw pointing double arrow |
| U+021D7 | | | | | | | | <code>\Nearrow</code> | ne pointing double arrow |
| U+021D8 | | | | | | | | <code>\Searrow</code> | se pointing double arrow |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|---|--|
| U+021D9 | | | | | | | | <code>\Swarrow</code> | sw pointing double arrow |
| U+021DA | | | | | | | | <code>\Lleftarrow^(a)</code> | left triple arrow |
| U+021DB | | | | | | | | <code>\Rrightarrow^(a)</code> | right triple arrow |
| U+021DC | | | | | | | | <code>\leftsquigarrow</code> | leftwards squiggle arrow |
| U+021DD | | | | | | | | <code>\rightsquigarrow^(a)</code> | rightwards squiggle arrow |
| U+021E4 | | | | | | | | <code>\barleftarrow</code> | leftwards arrow to bar |
| U+021E5 | | | | | | | | <code>\rightarrowbar</code> | rightwards arrow to bar |
| U+021F4 | | | | | | | | <code>\circlearrowright</code> | right arrow with small circle |
| U+021F5 | | | | | | | | <code>\downuparrows</code> | downwards arrow leftwards of upwards arrow |
| U+021F6 | | | | | | | | <code>\rightthreearrows</code> | three rightwards arrows |
| U+021F7 | | | | | | | | <code>\nleftarrow</code> | leftwards arrow with vertical stroke |
| U+021F8 | | | | | | | | <code>\nrightarrow</code> | rightwards arrow with vertical stroke |
| U+021F9 | | | | | | | | <code>\nleftrightarrow</code> | left right arrow with vertical stroke |
| U+021FA | | | | | | | | <code>\nVleftarrow</code> | leftwards arrow with double vertical stroke |
| U+021FB | | | | | | | | <code>\nVrightarrow</code> | rightwards arrow with double vertical stroke |
| U+021FC | | | | | | | | <code>\nVleftrightarrow</code> | left right arrow with double vertical stroke |
| U+021FD | | | | | | | | <code>\leftarrowtriangle</code> | leftwards open-headed arrow |
| U+021FE | | | | | | | | <code>\rightarrowtriangle</code> | rightwards open-headed arrow |
| U+021FF | | | | | | | | <code>\leftrightarrowtriangle</code> | left right open-headed arrow |
| U+02208 | | | | | | | | <code>\in^(p)</code> | set membership, variant |
| U+02209 | | | | | | | | <code>\notin^(l)</code> | negated set membership |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|----|----|----|----|----|----|---------------------------------------|--|
| U+0220A | ∈ | ∈ | ∈ | | ∈ | ∈ | ∈ | <code>\smallin</code> | set membership (small set membership) |
| U+0220B | ⊃ | ⊃ | ⊃ | ⊃ | ⊃ | ⊃ | ⊃ | <code>\ni^(p)</code> | contains, variant |
| U+0220C | ⊄ | ⊄ | ⊄ | ⊄ | ⊄ | ⊄ | ⊄ | <code>\nni</code> | negated contains, variant |
| U+0220D | ⊃ | ⊃ | ⊃ | | ⊃ | ⊃ | ⊃ | <code>\smallni</code> | /ni /owns r: contains (small contains as member) |
| U+0221D | ∝ | ∝ | ∝ | ∝ | ∝ | ∝ | ∝ | <code>\propto^(p)</code> | is proportional to |
| U+02223 | | | | | | | | <code>\mid^(p)</code> | /mid r: |
| U+02224 | ⊢ | ⊢ | ⊢ | ⊢ | ⊢ | ⊢ | ⊢ | <code>\nmid^(a)</code> | negated mid |
| U+02225 | | | | | | | | <code>\parallel^(p)</code> | parallel |
| U+02226 | ⧻ | ⧻ | ⧻ | ⧻ | ⧻ | ⧻ | ⧻ | <code>\nparallel^(a)</code> | not parallel |
| U+02236 | : | : | : | : | : | : | : | <code>\mathratio</code> | ratio |
| U+02237 | :: | :: | :: | :: | :: | :: | :: | <code>\Colon</code> | two colons |
| U+02239 | ⋮ | ⋮ | ⋮ | ⋮ | ⋮ | ⋮ | ⋮ | <code>\dashcolon</code> | excess (⋮) |
| U+0223A | ⋮ | ⋮ | ⋮ | ⋮ | ⋮ | ⋮ | ⋮ | <code>\dotsminusdots</code> | minus with four dots, geometric properties |
| U+0223B | ⋈ | ⋈ | ⋈ | ⋈ | ⋈ | ⋈ | ⋈ | <code>\kernelcontraction</code> | homothetic |
| U+0223C | ∼ | ∼ | ∼ | ∼ | ∼ | ∼ | ∼ | <code>\sim^(p)</code> | similar |
| U+0223D | ⋈ | ⋈ | ⋈ | ⋈ | ⋈ | ⋈ | ⋈ | <code>\backsim^(a)</code> | reverse similar |
| U+02241 | ⋈ | ⋈ | ⋈ | ⋈ | ⋈ | ⋈ | ⋈ | <code>\nsim^(a)</code> | not similar |
| U+02242 | ≈ | ≈ | ≈ | ≈ | ≈ | ≈ | ≈ | <code>\eqsim^(a)</code> | equals, similar |
| U+02243 | ≈ | ≈ | ≈ | ≈ | ≈ | ≈ | ≈ | <code>\simeq^(p)</code> | similar, equals |
| U+02244 | ⋈ | ⋈ | ⋈ | ⋈ | ⋈ | ⋈ | ⋈ | <code>\nsime</code> | not similar, equals |
| U+02243 | ≈ | ≈ | ≈ | ≈ | ≈ | ≈ | ≈ | <code>\sime</code> | similar, equals (alias) |
| U+02244 | ⋈ | ⋈ | ⋈ | ⋈ | ⋈ | ⋈ | ⋈ | <code>\nsimeq</code> | not similar, equals (alias) |
| U+02245 | ≅ | ≅ | ≅ | ≅ | ≅ | ≅ | ≅ | <code>\cong^(l)</code> | congruent with |































































































| usv | LM | S | E | K | T | G | Li | Macro | Description |
|---------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|---|
| U+02246 | \approx | $\not\approx$ | $\not\approx$ | $\not\approx$ | $\not\approx$ | $\not\approx$ | $\not\approx$ | <code>\simneqq</code> | similar, not equals [vert only for 9573 entity] |
| U+02247 | \ncong | \ncong | \ncong | \ncong | \ncong | \ncong | \ncong | <code>\ncong^(a)</code> | not congruent with |
| U+02248 | \approx | \approx | \approx | \approx | \approx | \approx | \approx | <code>\approx^(p)</code> | approximate |
| U+02249 | \napprox | \napprox | \napprox | \napprox | \napprox | \napprox | \napprox | <code>\napprox</code> | not approximate |
| U+0224A | \approx | \approx | \approx | \approx | \approx | \approx | \approx | <code>\approxeq^(a)</code> | approximate, equals |
| U+0224B | \approx | \approx | \approx | \approx | \approx | \approx | \approx | <code>\approxdent</code> | approximately identical to |
| U+0224C | \equiv | \equiv | \equiv | \equiv | \equiv | \equiv | \equiv | <code>\backcong</code> | all equal to |
| U+0224D | \asymp | \asymp | \asymp | \asymp | \asymp | \asymp | \asymp | <code>\asymp^(p)</code> | asymptotically equal to |
| U+0224E | \bumpeq | \bumpeq | \bumpeq | \bumpeq | \bumpeq | \bumpeq | | <code>\Bumpeq^(a)</code> | bumpy equals |
| U+0224F | \bumpeq | \bumpeq | \bumpeq | \bumpeq | \bumpeq | \bumpeq | | <code>\bumpeq^(a)</code> | bumpy equals, equals |
| U+02250 | \doteq | \doteq | \doteq | \doteq | \doteq | \doteq | \doteq | <code>\doteq^(l)</code> | equals, single dot above |
| U+02251 | \doteq | \doteq | \doteq | \doteq | \doteq | \doteq | \doteq | <code>\Doteq^(a)</code> | <code>/doteqdot /doteq r:</code> equals, even dots |
| U+02252 | \fallingdotseq | \fallingdotseq | \fallingdotseq | \fallingdotseq | \fallingdotseq | \fallingdotseq | \fallingdotseq | <code>\fallingdotseq^(a)</code> | equals, falling dots |
| U+02253 | \risingdotseq | \risingdotseq | \risingdotseq | \risingdotseq | \risingdotseq | \risingdotseq | \risingdotseq | <code>\risingdotseq^(a)</code> | equals, rising dots |
| U+02254 | \coloneq | \coloneq | \coloneq | \coloneq | \coloneq | \coloneq | \coloneq | <code>\coloneq</code> | colon, equals |
| U+02255 | \eqcolon | \eqcolon | \eqcolon | \eqcolon | \eqcolon | \eqcolon | \eqcolon | <code>\eqcolon</code> | equals, colon |
| U+02256 | \eqcirc | \eqcirc | \eqcirc | \eqcirc | \eqcirc | \eqcirc | \eqcirc | <code>\eqcirc^(a)</code> | circle on equals sign |
| U+02257 | \circeq | \circeq | \circeq | \circeq | \circeq | | \circeq | <code>\circeq^(a)</code> | circle, equals |
| U+02258 | \arceq | \arceq | \arceq | | \arceq | | \arceq | <code>\arceq</code> | arc, equals; corresponds to |
| U+02259 | \wedg | \wedg | \wedg | | \wedg | | \wedg | <code>\wedg</code> | corresponds to (wedge, equals) |
| U+0225A | \veeeq | \veeeq | \veeeq | | \veeeq | | \veeeq | <code>\veeeq</code> | logical or, equals |
| U+0225B | \stareq | \stareq | \stareq | | \stareq | | \stareq | <code>\stareq</code> | star equals |
| U+0225C | \triangleq | \triangleq | \triangleq | \triangleq | \triangleq | | \triangleq | <code>\triangleq^(a)</code> | triangle, equals |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------------------------|----------------------------|----------------------------|---------------|----------------------------|---------------|----------------------------|-------------------------------------|-----------------------------------|
| U+0225D | $\stackrel{\text{def}}{=}$ | $\stackrel{\text{def}}{=}$ | $\stackrel{\text{def}}{=}$ | | $\stackrel{\text{def}}{=}$ | | $\stackrel{\text{def}}{=}$ | <code>\eqdef</code> | equals by definition |
| U+0225E | $\stackrel{\text{m}}{=}$ | $\stackrel{\text{m}}{=}$ | $\stackrel{\text{m}}{=}$ | | $\stackrel{\text{m}}{=}$ | | $\stackrel{\text{m}}{=}$ | <code>\measeq</code> | measured by (m over equals) |
| U+0225F | $\stackrel{?}{=}$ | $\stackrel{?}{=}$ | $\stackrel{?}{=}$ | | $\stackrel{?}{=}$ | | $\stackrel{?}{=}$ | <code>\questeq</code> | equal with questionmark |
| U+02260 | \neq | \neq | \neq | \neq | \neq | \neq | \neq | <code>\ne^(p)</code> | /ne /neq r: not equal |
| U+02261 | \equiv | \equiv | \equiv | \equiv | \equiv | \equiv | \equiv | <code>\equiv^(p)</code> | identical with |
| U+02262 | \ncong | \ncong | \ncong | \ncong | \ncong | \ncong | \ncong | <code>\nequiv</code> | not identical with |
| U+02263 | \equiv | \equiv | \equiv | \equiv | \equiv | \equiv | \equiv | <code>\Equiv</code> | strict equivalence (4 lines) |
| U+02264 | \leq | \leq | \leq | \leq | \leq | \leq | \leq | <code>\leq^(p)</code> | /leq /le r: less-than-or-equal |
| U+02265 | \geq | \geq | \geq | \geq | \geq | \geq | \geq | <code>\geq^(p)</code> | /geq /ge r: greater-than-or-equal |
| U+02266 | \leq | \leq | \leq | \leq | \leq | \leq | \leq | <code>\leqq^(a)</code> | less, double equals |
| U+02267 | \geq | \geq | \geq | \geq | \geq | \geq | \geq | <code>\geqq^(a)</code> | greater, double equals |
| U+02268 | \nleq | \nleq | \nleq | \nleq | \nleq | \nleq | \nleq | <code>\lneqq^(a)</code> | less, not double equals |
| U+02269 | \ngeq | \ngeq | \ngeq | \ngeq | \ngeq | \ngeq | \ngeq | <code>\gneqq^(a)</code> | greater, not double equals |
| U+0226A | \ll | \ll | \ll | \ll | \ll | \ll | \ll | <code>\ll^(p)</code> | much less than, type 2 |
| U+0226B | \gg | \gg | \gg | \gg | \gg | \gg | \gg | <code>\gg^(p)</code> | much greater than, type 2 |
| U+0226C | \between | \between | \between | \between | \between | \between | \between | <code>\between^(a)</code> | between |
| U+0226D | \asymp | \asymp | \asymp | \asymp | \asymp | \asymp | \asymp | <code>\nasymp</code> | not asymptotically equal to |
| U+0226E | \nless | \nless | \nless | \nless | \nless | \nless | \nless | <code>\nless^(a)</code> | not less-than |
| U+0226F | \ngtr | \ngtr | \ngtr | \ngtr | \ngtr | \ngtr | \ngtr | <code>\ngtr^(a)</code> | not greater-than |
| U+02270 | \nleq | \nleq | \nleq | \nleq | \nleq | \nleq | \nleq | <code>\nleq^(a)</code> | not less-than-or-equal |
| U+02271 | \ngeq | \ngeq | \ngeq | \ngeq | \ngeq | \ngeq | \ngeq | <code>\ngeq^(a)</code> | not greater-than-or-equal |
| U+02272 | \lessapprox | \lessapprox | \lessapprox | \lessapprox | \lessapprox | \lessapprox | \lessapprox | <code>\lesssim^(a)</code> | less, similar |
| U+02273 | \gtrapprox | \gtrapprox | \gtrapprox | \gtrapprox | \gtrapprox | \gtrapprox | \gtrapprox | <code>\gtrsim^(a)</code> | greater, similar |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|---|--|
| U+02274 | ⩵ | ⩴ | ⩶ | ⩷ | ⩸ | ⩹ | ⩺ | <code>\nlesssim</code> | not less, similar |
| U+02275 | ⩶ | ⩴ | ⩶ | ⩷ | ⩸ | ⩹ | ⩺ | <code>\ngtrsim</code> | not greater, similar |
| U+02276 | ⩴ | ⩴ | ⩶ | ⩷ | ⩸ | ⩹ | ⩺ | <code>\lessgtr^(a)</code> | less, greater |
| U+02277 | ⩶ | ⩴ | ⩶ | ⩷ | ⩸ | ⩹ | ⩺ | <code>\gtrless^(a)</code> | greater, less |
| U+02278 | ⩵ | ⩴ | ⩶ | ⩷ | ⩸ | ⩹ | ⩺ | <code>\nlessgtr</code> | not less, greater |
| U+02279 | ⩶ | ⩴ | ⩶ | ⩷ | ⩸ | ⩹ | ⩺ | <code>\ngtrless</code> | not greater, less |
| U+0227A | ⩸ | ⩸ | ⩸ | ⩸ | ⩸ | ⩸ | ⩸ | <code>\prec^(p)</code> | precedes |
| U+0227B | ⩸ | ⩸ | ⩸ | ⩸ | ⩸ | ⩸ | ⩸ | <code>\succ^(p)</code> | succeeds |
| U+0227C | ⩹ | ⩹ | ⩹ | ⩹ | ⩹ | ⩹ | ⩹ | <code>\preccurlyeq^(a)</code> | precedes, curly equals |
| U+0227D | ⩹ | ⩹ | ⩹ | ⩹ | ⩹ | ⩹ | ⩹ | <code>\succcurlyeq^(a)</code> | succeeds, curly equals |
| U+0227E | ⩸ | ⩸ | ⩸ | ⩸ | ⩸ | ⩸ | ⩸ | <code>\precsim^(a)</code> | precedes, similar |
| U+0227F | ⩸ | ⩸ | ⩸ | ⩸ | ⩸ | ⩸ | ⩸ | <code>\succsim^(a)</code> | succeeds, similar |
| U+02280 | ⩵ | ⩴ | ⩶ | ⩷ | ⩸ | ⩹ | ⩺ | <code>\nprec^(a)</code> | not precedes |
| U+02281 | ⩶ | ⩴ | ⩶ | ⩷ | ⩸ | ⩹ | ⩺ | <code>\nsucc^(a)</code> | not succeeds |
| U+02282 | ⊂ | ⊂ | ⊂ | ⊂ | ⊂ | ⊂ | ⊂ | <code>\subset^(p)</code> | subset or is implied by |
| U+02283 | ⊃ | ⊃ | ⊃ | ⊃ | ⊃ | ⊃ | ⊃ | <code>\supset^(p)</code> | superset or implies |
| U+02284 | ⊄ | ⊄ | ⊄ | ⊄ | ⊄ | ⊄ | ⊄ | <code>\nsubset</code> | not subset, variant [slash negation] |
| U+02285 | ⊇ | ⊇ | ⊇ | ⊇ | ⊇ | ⊇ | ⊇ | <code>\nsupset</code> | not superset, variant [slash negation] |
| U+02286 | ⊆ | ⊆ | ⊆ | ⊆ | ⊆ | ⊆ | ⊆ | <code>\subseteq^(p)</code> | subset, equals |
| U+02287 | ⊇ | ⊇ | ⊇ | ⊇ | ⊇ | ⊇ | ⊇ | <code>\supseteq^(p)</code> | superset, equals |
| U+02288 | ⊈ | ⊈ | ⊈ | ⊈ | ⊈ | ⊈ | ⊈ | <code>\nsubseteq^(a)</code> | not subset, equals |
| U+02289 | ⊉ | ⊉ | ⊉ | ⊉ | ⊉ | ⊉ | ⊉ | <code>\nsupseteq^(a)</code> | not superset, equals |
| U+0228A | ⊈ | ⊈ | ⊈ | ⊈ | ⊈ | ⊈ | ⊈ | <code>\subsetneq^(a)</code> | subset, not equals |
| U+0228B | ⊉ | ⊉ | ⊉ | ⊉ | ⊉ | ⊉ | ⊉ | <code>\supsetneq^(a)</code> | superset, not equals |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|--------------------------------------|--------------------------------------|
| U+0228F | | | | | | | | <code>\sqsubset</code> | square subset |
| U+02290 | | | | | | | | <code>\sqsupset</code> | square superset |
| U+02291 | | | | | | | | <code>\sqsubseteq^{(p)}</code> | square subset, equals |
| U+02292 | | | | | | | | <code>\sqsupseteq^{(p)}</code> | square superset, equals |
| U+022A2 | | | | | | | | <code>\vdash^{(p)}</code> | vertical, dash |
| U+022A3 | | | | | | | | <code>\dashv^{(p)}</code> | dash, vertical |
| U+022A6 | | | | | | | | <code>\assert</code> | assertion (vertical, short dash) |
| U+022A7 | | | | | | | | <code>\models^{(p)}</code> | models (vertical, short double dash) |
| U+022A8 | | | | | | | | <code>\vDash^{(a)}</code> | vertical, double dash |
| U+022A9 | | | | | | | | <code>\Vdash^{(a)}</code> | double vertical, dash |
| U+022AA | | | | | | | | <code>\Vvdash^{(a)}</code> | triple vertical, dash |
| U+022AB | | | | | | | | <code>\VDash</code> | double vert, double dash |
| U+022AC | | | | | | | | <code>\nvdash^{(a)}</code> | not vertical, dash |
| U+022AD | | | | | | | | <code>\nvDash^{(a)}</code> | not vertical, double dash |
| U+022AE | | | | | | | | <code>\nVdash^{(a)}</code> | not double vertical, dash |
| U+022AF | | | | | | | | <code>\nVDash^{(a)}</code> | not double vert, double dash |
| U+022B0 | | | | | | | | <code>\prurel</code> | element precedes under relation |
| U+022B1 | | | | | | | | <code>\scurel</code> | succeeds under relation |
| U+022B2 | | | | | | | | <code>\vartriangleleft^{(a)}</code> | left triangle, open, variant |
| U+022B3 | | | | | | | | <code>\vartriangleright^{(a)}</code> | right triangle, open, variant |
| U+022B4 | | | | | | | | <code>\trianglelefteq^{(a)}</code> | left triangle, equals |
| U+022B5 | | | | | | | | <code>\trianglerighteq^{(a)}</code> | right triangle, equals |
| U+022B6 | | | | | | | | <code>\origof</code> | original of |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|---|--|
| U+022B7 | | | | | | | | <code>\imageof</code> | image of |
| U+022B8 | | | | | | | | <code>\multimap^(a)</code> | /multimap a: |
| U+022C8 | | | | | | | | <code>\bowtie^(p)</code> | bowtie |
| U+022CD | | | | | | | | <code>\backsimeq^(a)</code> | reverse similar, equals |
| U+022D0 | | | | | | | | <code>\Subset^(a)</code> | double subset |
| U+022D1 | | | | | | | | <code>\Supset^(a)</code> | double superset |
| U+022D4 | | | | | | | | <code>\pitchfork^(a)</code> | pitchfork |
| U+022D5 | | | | | | | | <code>\equalparallel</code> | parallel, equal; equal or parallel |
| U+022D6 | | | | | | | | <code>\lessdot^(a)</code> | less than, with dot |
| U+022D7 | | | | | | | | <code>\gtrdot^(a)</code> | greater than, with dot |
| U+022D8 | | | | | | | | <code>\lll^(a)</code> | /ll /lll /llless r: triple less-than |
| U+022D9 | | | | | | | | <code>\ggg^(a)</code> | /ggg /gg /gggtr r: triple greater-than |
| U+022DA | | | | | | | | <code>\lesseqgtr^(a)</code> | less, equals, greater |
| U+022DB | | | | | | | | <code>\gtreqless^(a)</code> | greater, equals, less |
| U+022DC | | | | | | | | <code>\eqless</code> | equal-or-less |
| U+022DD | | | | | | | | <code>\eqgtr</code> | equal-or-greater |
| U+022DE | | | | | | | | <code>\curlyeqprec^(a)</code> | curly equals, precedes |
| U+022DF | | | | | | | | <code>\curlyeqsucc^(a)</code> | curly equals, succeeds |
| U+022E0 | | | | | | | | <code>\npreccurlyeq</code> | not precedes, curly equals |
| U+022E1 | | | | | | | | <code>\nsucccurlyeq</code> | not succeeds, curly equals |
| U+022E2 | | | | | | | | <code>\nsqsubseteq</code> | not, square subset, equals |
| U+022E3 | | | | | | | | <code>\nsqsupseteq</code> | not, square superset, equals |
| U+022E4 | | | | | | | | <code>\sqsubsetneq</code> | square subset, not equals |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|--|---|--|--|--|--|--|--|--|
| U+022E5 |  |  |  |  |  |  |  | <code>\sqsupsetneq</code> | square superset, not equals |
| U+022E6 |  |  |  |  |  |  |  | <code>\lnsim^(a)</code> | less, not similar |
| U+022E7 |  |  |  |  |  |  |  | <code>\gnsim^(a)</code> | greater, not similar |
| U+022E8 |  |  |  |  |  |  |  | <code>\precnsim^(a)</code> | precedes, not similar |
| U+022E9 |  |  |  |  |  |  |  | <code>\succnsim^(a)</code> | succeeds, not similar |
| U+022EA |  |  |  |  |  |  |  | <code>\nvartriangleleft</code> | not left triangle |
| U+022EB |  |  |  |  |  |  |  | <code>\nvartriangleright</code> | not right triangle |
| U+022EC |  |  |  |  |  |  |  | <code>\ntrianglelefteq^(a)</code> | not left triangle, equals |
| U+022ED |  |  |  |  |  |  |  | <code>\ntrianglerighteq^(a)</code> | not right triangle, equals |
| U+022EE |  |  |  |  |  |  |  | <code>\vdots^(p)</code> | vertical ellipsis |
| U+022F0 |  |  |  |  |  |  |  | <code>\adots</code> | three dots, ascending |
| U+022F1 |  |  |  |  |  |  |  | <code>\ddots^(p)</code> | three dots, descending |
| U+022F2 | |  | | | | | | <code>\disin</code> | element of with long horizontal stroke |
| U+022F3 | |  | | | | | | <code>\varisins</code> | element of with vertical bar at end of horizontal stroke |
| U+022F4 | |  | | | | | | <code>\isins</code> | small element of with vertical bar at end of horizontal stroke |
| U+022F5 | |  | | | | | | <code>\isindot</code> | element of with dot above |
| U+022F6 | |  | | | | | | <code>\varisinobar</code> | element of with overbar |
| U+022F7 | |  | | | | | | <code>\isinobar</code> | small element of with overbar |
| U+022F8 | |  | | | | | | <code>\isinvb</code> | element of with underbar |
| U+022F9 | |  | | | | | | <code>\isinE</code> | element of with two horizontal strokes |
| U+022FA | |  | | | | | | <code>\nisd</code> | contains with long horizontal stroke |
| U+022FB | |  | | | | | | <code>\varnis</code> | contains with vertical bar at end of horizontal stroke |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|-----------------------------|--|
| U+022FC | | ⋈ | | | | | | \nis | small contains with vertical bar at end of horizontal stroke |
| U+022FD | | ⋉ | | | | | | \varniobar | contains with overbar |
| U+022FE | | ⋊ | | | | | | \niobar | small contains with overbar |
| U+022FF | | ⋋ | | | | | | \bagmember | z notation bag membership |
| U+02322 | ⤿ | ⤿ | ⤿ | ⤿ | ⤿ | ⤿ | ⤿ | \frown ^(p) | down curve |
| U+02323 | ⤾ | ⤾ | ⤾ | ⤾ | ⤾ | ⤾ | ⤾ | \smile ^(p) | up curve |
| U+0233F | | ⋈ | | | | | | \APLnotslash | solidus, bar through (apl functional symbol slash bar) |
| U+025B5 | | △ | △ | △ | | | | \vartriangle ^(a) | /triangle - up triangle, open |
| U+027C2 | ⊥ | ⊥ | ⊥ | ⊥ | ⊥ | ⊥ | ⊥ | \perp ^(p) | perpendicular |
| U+027C8 | | ⊃ | | | | | | \bsolhsb | reverse solidus preceding subset |
| U+027C9 | | ⊃ | | | | | | \suphsol | superset preceding solidus |
| U+027D2 | | ⤿ | | | | | | \upin | element of opening upwards |
| U+027D3 | | ⋈ | | | | | | \pullback | lower right corner with dot |
| U+027D4 | | ⋈ | | | | | | \pushout | upper left corner with dot |
| U+027DA | ⋈ | ⋈ | ⋈ | ⋈ | ⋈ | ⋈ | | \DashVDash | left and right double turnstile |
| U+027DB | ⋈ | ⋈ | ⋈ | ⋈ | ⋈ | ⋈ | | \dashVdash | left and right tack |
| U+027DC | ⋈ | ⋈ | ⋈ | ⋈ | ⋈ | ⋈ | | \multimapinv | left multimap |
| U+027DD | ⋈ | ⋈ | ⋈ | ⋈ | ⋈ | ⋈ | | \vlongdash | long left tack |
| U+027DE | ⋈ | ⋈ | ⋈ | ⋈ | ⋈ | ⋈ | | \longdashv | long right tack |
| U+027DF | | ⋈ | | | | | | \cirbot | up tack with circle above |
| U+027F0 | | ⋈ | | | | | | \UUparrow | upwards quadruple arrow |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|--|---|
| U+027F1 | | ⇓ | | | | | | <code>\Downarrow</code> | downwards quadruple arrow |
| U+027F2 | | ↻ | | | | | ↻ | <code>\acwgapcirculararrow</code> | anticlockwise gapped circle arrow |
| U+027F3 | | ↻ | | | | | ↻ | <code>\cwgapcirculararrow</code> | clockwise gapped circle arrow |
| U+027F4 | ⊕ | ⊕ | ⊕ | ⊕ | ⊕ | | | <code>\rightarrowonoplus</code> | right arrow with circled plus |
| U+027F5 | ← | ← | ← | ← | ← | ← | ← | <code>\longleftarrow^(p)</code> | long leftwards arrow |
| U+027F6 | → | → | → | → | → | → | → | <code>\longrightarrow^(p)</code> | long rightwards arrow |
| U+027F7 | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | ↔ | <code>\longleftrightarrow^(p)</code> | long left right arrow |
| U+027F8 | ⇐ | ⇐ | ⇐ | ⇐ | ⇐ | ⇐ | ⇐ | <code>\Longleftarrow^(p)</code> | long leftwards double arrow |
| U+027F9 | ⇒ | ⇒ | ⇒ | ⇒ | ⇒ | ⇒ | ⇒ | <code>\Longrightarrow^(p)</code> | long rightwards double arrow |
| U+027FA | ⇔ | ⇔ | ⇔ | ⇔ | ⇔ | ⇔ | ⇔ | <code>\Longleftrightarrow^(p)</code> | long left right double arrow |
| U+027FB | ← | ← | ← | ← | ← | ← | ← | <code>\longmapsfrom</code> | long leftwards arrow from bar |
| U+027FC | → | → | → | → | → | → | → | <code>\longmapsto^(p)</code> | long rightwards arrow from bar |
| U+027FD | ⇐ | ⇐ | ⇐ | ⇐ | ⇐ | ⇐ | ⇐ | <code>\Longmapsfrom</code> | long leftwards double arrow from bar |
| U+027FE | ⇒ | ⇒ | ⇒ | ⇒ | ⇒ | ⇒ | ⇒ | <code>\Longmapsto</code> | long rightwards double arrow from bar |
| U+027FF | ↗ | ↗ | ↗ | ↗ | ↗ | ↗ | ↗ | <code>\longrightsquigarrow</code> | long rightwards squiggle arrow |
| U+02900 | | ⇔ | | | | | | <code>\nVtwoheadrightarrow</code> | rightwards two-headed arrow with vertical stroke |
| U+02901 | | ⇔ | | | | | | <code>\nVtwoheadrightarrow</code> | rightwards two-headed arrow with double vertical stroke |
| U+02902 | | ⇐ | | | | | ⇐ | <code>\nvLeftarrow</code> | leftwards double arrow with vertical stroke |
| U+02903 | | ⇒ | | | | | ⇒ | <code>\nvRrightarrow</code> | rightwards double arrow with vertical stroke |

| usv | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|----|---|---|---|---|----|-------------------------------------|--|
| U+02904 | | ↔ | | | | | ↔ | <code>\nvLefttrightarrow</code> | left right double arrow with vertical stroke |
| U+02905 | | ↞ | | | | | | <code>\twoheadmapsto</code> | rightwards two-headed arrow from bar |
| U+02906 | ↠ | ↤ | ↠ | ↤ | ↤ | ↤ | ↤ | <code>\Mapsfrom</code> | leftwards double arrow from bar |
| U+02907 | ↞ | ↞ | ↞ | ↞ | ↞ | ↞ | ↞ | <code>\Mapsto</code> | rightwards double arrow from bar |
| U+02908 | | ↓ | | | | | | <code>\downarrowbarred</code> | downwards arrow with horizontal stroke |
| U+02909 | | ↑ | | | | | | <code>\uparrowbarred</code> | upwards arrow with horizontal stroke |
| U+0290A | | ↑↑ | | | | | ↑↑ | <code>\Uuparrow</code> | upwards triple arrow |
| U+0290B | | ↓↓ | | | | | ↓↓ | <code>\Ddownarrow</code> | downwards triple arrow |
| U+0290C | | ↔ | | | | | | <code>\leftbkarrow</code> | leftwards double dash arrow |
| U+0290D | | ↔ | | | | | | <code>\rightbkarrow</code> | rightwards double dash arrow |
| U+0290E | | ↔ | | | | | | <code>\leftdbkarrow</code> | leftwards triple dash arrow |
| U+0290F | | ↔ | | | | | | <code>\dbkarrow</code> | rightwards triple dash arrow |
| U+02910 | | ↔ | | | | | | <code>\drbkarrow</code> | rightwards two-headed triple dash arrow |
| U+02911 | | ↔ | | | | | | <code>\rightrightarrow</code> | rightwards arrow with dotted stem |
| U+02912 | | ↑ | | | | | | <code>\baruparrow</code> | upwards arrow to bar |
| U+02913 | | ↓ | | | | | | <code>\downarrowbar</code> | downwards arrow to bar |
| U+02914 | | ↔ | | | | | | <code>\nvrightarrowtail</code> | rightwards arrow with tail with vertical stroke |
| U+02915 | | ↔ | | | | | | <code>\nVrightarrowtail</code> | rightwards arrow with tail with double vertical stroke |
| U+02916 | | ↔ | | | | | | <code>\twoheadrightarrowtail</code> | rightwards two-headed arrow with tail |

| usv | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|--------------------------|---|
| U+02917 | | ↔ | | | | | | \nvtwoheadrightarrowtail | rightwards two-headed arrow with tail with vertical stroke |
| U+02918 | | ↔ | | | | | | \nVtwoheadrightarrowtail | rightwards two-headed arrow with tail with double vertical stroke |
| U+02919 | | ← | | | | | | \lefttail | leftwards arrow-tail |
| U+0291A | | → | | | | | | \righttail | rightwards arrow-tail |
| U+0291B | | ↔ | | | | | | \leftdbltail | leftwards double arrow-tail |
| U+0291C | | ↔ | | | | | | \rightdbltail | rightwards double arrow-tail |
| U+0291D | | ↔ | | | | | | \diamondleftarrow | leftwards arrow to black diamond |
| U+0291E | | → | | | | | | \rightarrowdiamond | rightwards arrow to black diamond |
| U+0291F | | ↔ | | | | | | \diamondleftarrowbar | leftwards arrow from bar to black diamond |
| U+02920 | | ↔ | | | | | | \barrightarrowdiamond | rightwards arrow from bar to black diamond |
| U+02921 | | ↖ | | | | | | \nwsearrow | north west and south east arrow |
| U+02922 | | ↗ | | | | | | \neswarrow | north east and south west arrow |
| U+02923 | | ↖ | | | | | | \hknwarrow | north west arrow with hook |
| U+02924 | | ↗ | | | | | | \hknearrow | north east arrow with hook |
| U+02925 | | ↘ | | | | | | \hksearrow | south east arrow with hook |
| U+02926 | | ↙ | | | | | | \hkswarrow | south west arrow with hook |
| U+02927 | | ↖ | | | | | | \tona | north west arrow and north east arrow |
| U+02928 | | ↗ | | | | | | \toea | north east arrow and south east arrow |
| U+02929 | | ↘ | | | | | | \tosa | south east arrow and south west arrow |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|---------------------------|--|
| U+0292A | | ↖ | | | | | | \towa | south west arrow and north west arrow |
| U+02933 | | ↗ | ↘ | | | | | \rightcurvedarrow | wave arrow pointing directly right |
| U+02936 | | ↙ | ↘ | | | | | \leftdowncurvedarrow | arrow pointing downwards then curving leftwards |
| U+02937 | | ↙ | ↘ | | | | | \rightdowncurvedarrow | arrow pointing downwards then curving rightwards |
| U+02938 | | ↻ | | | | | | \cwrightarcarrow | right-side arc clockwise arrow |
| U+02939 | | ↻ | | | | | | \acwleftarcarrow | left-side arc anticlockwise arrow |
| U+0293A | | ↻ | | | | | | \acwoverarcarrow | top arc anticlockwise arrow |
| U+0293B | | ↻ | | | | | | \acwunderarcarrow | bottom arc anticlockwise arrow |
| U+0293C | | ↻ | | | | | | \curvearrowrightminus | top arc clockwise arrow with minus |
| U+0293D | | ↻ | | | | | | \curvearrowleftplus | top arc anticlockwise arrow with plus |
| U+0293E | | ↻ | | | | | | \cwundercurvearrow | lower right semicircular clockwise arrow |
| U+0293F | | ↻ | | | | | | \ccwundercurvearrow | lower left semicircular anticlockwise arrow |
| U+02940 | | ↻ | | | | | | \acwcirculararrow | anticlockwise closed circle arrow |
| U+02941 | | ↻ | | | | | | \cwcirculararrow | clockwise closed circle arrow |
| U+02942 | | ↗ | | | | | | \rightarrowshortleftarrow | rightwards arrow above short leftwards arrow |
| U+02943 | | ↗ | | | | | | \leftarrowshortrightarrow | leftwards arrow above short rightwards arrow |
| U+02944 | | ↗ | | | | | | \shortrightarrowleftarrow | short rightwards arrow above leftwards arrow |
| U+02945 | | ↗ | | | | | | \rightarrowplus | rightwards arrow with plus below |
| U+02946 | | ↗ | | | | | | \leftarrowplus | leftwards arrow with plus below |

































































| usv | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|---------------------------|--|
| U+02947 | | ↔ | | | | | | \rightarrowx | rightwards arrow through x |
| U+02948 | | ↔ | | | | | | \leftrightarrowcircle | left right arrow through small circle |
| U+02949 | | ↕ | | | | | | \twoheaduparrowcircle | upwards two-headed arrow from small circle |
| U+0294A | | ↗ | | | | | | \leftrightharpoonupdown | left barb up right barb down harpoon |
| U+0294B | | ↘ | | | | | | \leftrightharpoondownup | left barb down right barb up harpoon |
| U+0294C | | ↙ | | | | | | \updownharpoonrightleft | up barb right down barb left harpoon |
| U+0294D | | ↘ | | | | | | \updownharpoonleftright | up barb left down barb right harpoon |
| U+0294E | | ↗ | | | | | | \leftrightharpoonupup | left barb up right barb up harpoon |
| U+0294F | | ↘ | | | | | | \updownharpoonrightright | up barb right down barb right harpoon |
| U+02950 | | ↘ | | | | | | \leftrightharpoondowndown | left barb down right barb down harpoon |
| U+02951 | | ↙ | | | | | | \updownharpoonleftleft | up barb left down barb left harpoon |
| U+02952 | | ↖ | | | | | | \barleftharpoonup | leftwards harpoon with barb up to bar |
| U+02953 | | ↗ | | | | | | \rightharpoonupbar | rightwards harpoon with barb up to bar |
| U+02954 | | ↗ | | | | | | \barupharpoonright | upwards harpoon with barb right to bar |
| U+02955 | | ↘ | | | | | | \downharpoonrightbar | downwards harpoon with barb right to bar |
| U+02956 | | ↖ | | | | | | \barleftharpoondown | leftwards harpoon with barb down to bar |
| U+02957 | | ↘ | | | | | | \rightharpoondownbar | rightwards harpoon with barb down to bar |
| U+02958 | | ↖ | | | | | | \barupharpoonleft | upwards harpoon with barb left to bar |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|-------------------------------------|---|
| U+02959 | | ↓ | | | | | | <code>\downharpoonleftbar</code> | downwards harpoon with barb left to bar |
| U+0295A | | ← | | | | | | <code>\leftharpoonupbar</code> | leftwards harpoon with barb up from bar |
| U+0295B | | → | | | | | | <code>\barriightharpoonup</code> | rightwards harpoon with barb up from bar |
| U+0295C | | ↑ | | | | | | <code>\upharpoonrightbar</code> | upwards harpoon with barb right from bar |
| U+0295D | | ↯ | | | | | | <code>\bardownharpoonright</code> | downwards harpoon with barb right from bar |
| U+0295E | | ↵ | | | | | | <code>\leftharpoondownbar</code> | leftwards harpoon with barb down from bar |
| U+0295F | | ↷ | | | | | | <code>\barriightharpoondown</code> | rightwards harpoon with barb down from bar |
| U+02960 | | ⌞ | | | | | | <code>\upharpoonleftbar</code> | upwards harpoon with barb left from bar |
| U+02961 | | ↰ | | | | | | <code>\bardownharpoonleft</code> | downwards harpoon with barb left from bar |
| U+02962 | | ⇐ | | | | | | <code>\leftharpoonsupdown</code> | leftwards harpoon with barb up above leftwards harpoon with barb down |
| U+02963 | | ⇑ | | | | | | <code>\upharpoonsleftright</code> | upwards harpoon with barb left beside upwards harpoon with barb right |
| U+02964 | | ⇒ | | | | | | <code>\rightharpoonsupdown</code> | rightwards harpoon with barb up above rightwards harpoon with barb down |
| U+02965 | | ⇓ | | | | | | <code>\downharpoonsleftright</code> | downwards harpoon with barb left beside downwards harpoon with barb right |
| U+02966 | | ⇐ | | | | | | <code>\leftrightharpoonsup</code> | leftwards harpoon with barb up above rightwards harpoon with barb up |
| U+02967 | | ⇒ | | | | | | <code>\leftrightharpoonsdown</code> | leftwards harpoon with barb down above rightwards harpoon with barb down |
| U+02968 | | ⇐ | | | | | | <code>\rightleftharpoonsup</code> | rightwards harpoon with barb up above leftwards harpoon with barb up |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|---|---------------------------------------|--|
| U+02969 | |  | | | | | | <code>\rightleftharpoonsdown</code> | rightwards harpoon with barb down above leftwards harpoon with barb down |
| U+0296A | |  | | | | | | <code>\leftharpoonupdash</code> | leftwards harpoon with barb up above long dash |
| U+0296B | |  | | | | | | <code>\dashleftharpoontdown</code> | leftwards harpoon with barb down below long dash |
| U+0296C | |  | | | | | | <code>\rightharpoonupdash</code> | rightwards harpoon with barb up above long dash |
| U+0296D | |  | | | | | | <code>\dashrightharpoontdown</code> | rightwards harpoon with barb down below long dash |
| U+0296E | |  | | | | | | <code>\updownharpoonsleftright</code> | upwards harpoon with barb left beside downwards harpoon with barb right |
| U+0296F | |  | | | | | | <code>\downupharpoonsleftright</code> | downwards harpoon with barb left beside upwards harpoon with barb right |
| U+02970 | |  | | | | | | <code>\rightimply</code> | right double arrow with rounded head |
| U+02971 | |  | | | | |  | <code>\equalrightarrow</code> | equals sign above rightwards arrow |
| U+02972 | |  | | | | |  | <code>\similarrightarrow</code> | tilde operator above rightwards arrow |
| U+02973 | |  | | | | |  | <code>\leftarrowsimilar</code> | leftwards arrow above tilde operator |
| U+02974 | |  | | | | |  | <code>\rightarrowsimilar</code> | rightwards arrow above tilde operator |
| U+02975 | |  | | | | |  | <code>\rightarrowapprox</code> | rightwards arrow above almost equal to |
| U+02976 | |  | | | | | | <code>\ltlarr</code> | less-than above leftwards arrow |
| U+02977 | |  | | | | | | <code>\leftarrowless</code> | leftwards arrow through less-than |
| U+02978 | |  | | | | | | <code>\gtrarr</code> | greater-than above rightwards arrow |
| U+02979 | |  | | | | | | <code>\subrarr</code> | subset above rightwards arrow |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|------------------|---|
| U+0297A | | ↵ | | | | | | \leftarrowsubset | leftwards arrow through subset |
| U+0297B | | ↶ | | | | | | \suplarr | superset above leftwards arrow |
| U+0297C | | ↷ | | | | | | \leftfishtail | left fish tail |
| U+0297D | | ↸ | | | | | | \rightfishtail | right fish tail |
| U+0297E | | ↹ | | | | | | \upfishtail | up fish tail |
| U+0297F | | ↻ | | | | | | \downfishtail | down fish tail |
| U+02982 | | ⋈ | | | | | ⋈ | \typecolon | z notation type colon |
| U+029CE | | ⌵ | | | | | | \rtriltri | right triangle above left triangle |
| U+029CF | | ⌶ | | | | | | \ltrivb | left triangle beside vertical bar |
| U+029D0 | | ⌷ | | | | | | \vbrtri | vertical bar beside right triangle |
| U+029D1 | | ⌸ | | | | | | \lfbowtie | left black bowtie |
| U+029D2 | | ⌹ | | | | | | \rfbowtie | right black bowtie |
| U+029D3 | | ⌺ | | | | | | \fbowtie | black bowtie |
| U+029D4 | | ⌻ | | | | | | \lftimes | left black times |
| U+029D5 | | ⌼ | | | | | | \rftimes | right black times |
| U+029DF | | ⌽ | | ⌽ | | | | \dualmap | double-ended multimap |
| U+029E1 | | ⌽ | | | | | | \lrtriangleeq | increases as |
| U+029E3 | | # | | | | | | \eparsl | equals sign and slanted parallel |
| U+029E4 | | ≍ | | | | | | \smeparsl | equals sign and slanted parallel with tilde above |
| U+029E5 | | # | | | | | | \eqvparsl | identical to and slanted parallel |
| U+029E6 | | ≡ | | | | | | \gleichstark | gleich stark |
| U+029F4 | | ⤿ | | | | | | \ruledelayed | rule-delayed |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|----|---|---|---|---|----|---------------------------|--|
| U+02A59 | | ⋈ | | | | | | <code>\veeonwedge</code> | logical or overlapping logical and |
| U+02A66 | | ⋮ | | | | | | <code>\eqdot</code> | equals sign with dot below |
| U+02A67 | | ⋮̇ | | | | | | <code>\dotequiv</code> | identical with dot above |
| U+02A68 | | ≡ | | | | | | <code>\equivVert</code> | triple horizontal bar with double vertical stroke |
| U+02A69 | | ≡ | | | | | | <code>\equivVvert</code> | triple horizontal bar with triple vertical stroke |
| U+02A6A | | ⋱ | | | | | | <code>\dotsim</code> | tilde operator with dot above |
| U+02A6B | | ⋱̇ | | | | | | <code>\simrdots</code> | tilde operator with rising dots |
| U+02A6C | | ⋲ | | | | | | <code>\simminussim</code> | similar minus similar |
| U+02A6D | | ⋲̇ | | | | | | <code>\congdot</code> | congruent with dot above |
| U+02A6E | | ≡* | | | | | | <code>\asteq</code> | equals with asterisk |
| U+02A6F | | ⋲̂ | | | | | | <code>\hatapprox</code> | almost equal to with circumflex accent |
| U+02A70 | | ⋳ | | | | | | <code>\approxqq</code> | approximately equal or equal to |
| U+02A73 | | ⋴ | | | | | | <code>\eqqsim</code> | equals sign above tilde operator |
| U+02A74 | | ⋵ | | ⋵ | | ⋵ | | <code>\Coloneq</code> | double colon equal |
| U+02A75 | | ⋶ | | | | ⋶ | | <code>\eqeq</code> | two consecutive equals signs |
| U+02A76 | | ⋷ | | | | ⋷ | | <code>\eqeqeq</code> | three consecutive equals signs |
| U+02A77 | | ⋸ | | | | | | <code>\ddotseq</code> | equals sign with two dots above and two dots below |
| U+02A78 | | ⋹ | | | | | | <code>\equivDD</code> | equivalent with four dots above |
| U+02A79 | | ⋺ | | | | | | <code>\ltcir</code> | less-than with circle inside |
| U+02A7A | | ⋻ | | | | | | <code>\gtcir</code> | greater-than with circle inside |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|---|---|---|---|---|---|---|--|--|
| U+02A7B | |  | | | | | | <code>\ltquest</code> | less-than with question mark above |
| U+02A7C | |  | | | | | | <code>\gtquest</code> | greater-than with question mark above |
| U+02A7D |  |  |  |  |  |  |  | <code>\leqslant^(a)</code> | less-than or slanted equal to |
| U+02A7E |  |  |  |  |  |  |  | <code>\geqslant^(a)</code> | greater-than or slanted equal to |
| U+02A7F | |  | | | | | | <code>\lesdot</code> | less-than or slanted equal to with dot inside |
| U+02A80 | |  | | | | | | <code>\gesdot</code> | greater-than or slanted equal to with dot inside |
| U+02A81 | |  | | | | | | <code>\lesdoto</code> | less-than or slanted equal to with dot above |
| U+02A82 | |  | | | | | | <code>\gesdoto</code> | greater-than or slanted equal to with dot above |
| U+02A83 | |  | | | | | | <code>\lesdotor</code> | less-than or slanted equal to with dot above right |
| U+02A84 | |  | | | | | | <code>\gesdoto1</code> | greater-than or slanted equal to with dot above left |
| U+02A85 |  |  |  |  |  | | | <code>\lessapprox^(a)</code> | less-than or approximate |
| U+02A86 |  |  |  |  |  | | | <code>\gtrapprox^(a)</code> | greater-than or approximate |
| U+02A87 |  |  |  |  |  | |  | <code>\lneq^(a)</code> | less-than and single-line not equal to |
| U+02A88 |  |  |  |  |  | |  | <code>\gneq^(a)</code> | greater-than and single-line not equal to |
| U+02A89 |  |  |  |  |  | | | <code>\lnapprox^(a)</code> | less-than and not approximate |
| U+02A8A |  |  |  |  |  | | | <code>\gnapprox^(a)</code> | greater-than and not approximate |
| U+02A8B |  |  |  |  |  | | | <code>\lesseqgtr^(a)</code> | less-than above double-line equal above greater-than |
| U+02A8C |  |  |  |  |  | | | <code>\gtreqless^(a)</code> | greater-than above double-line equal above less-than |


































| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|-------------|--------------------|------------|------------|------------|---|----|---|--|
| U+02A8D | | \lesssim | | | | | | <code>\lsime</code> | less-than above similar or equal |
| U+02A8E | | \gtrsim | | | | | | <code>\gsime</code> | greater-than above similar or equal |
| U+02A8F | | \lesgtr | | | | | | <code>\lsimg</code> | less-than above similar above greater-than |
| U+02A90 | | \gtrsiml | | | | | | <code>\gsiml</code> | greater-than above similar above less-than |
| U+02A91 | | \lesseqgtr | | | | | | <code>\lgE</code> | less-than above greater-than above double-line equal |
| U+02A92 | | \gtrlessgtr | | | | | | <code>\glE</code> | greater-than above less-than above double-line equal |
| U+02A93 | | \lesseqgtrslant | | | | | | <code>\lesges</code> | less-than above slanted equal above greater-than above slanted equal |
| U+02A94 | | \gtrlessgtrslant | | | | | | <code>\gesles</code> | greater-than above slanted equal above less-than above slanted equal |
| U+02A95 | \leqslant | \lessgtr | \lessgtr | \lessgtr | \lessgtr | | | <code>\eqslantless^(a)</code> | slanted equal to or less-than |
| U+02A96 | \gtrless | \gtrless | \gtrless | \gtrless | \gtrless | | | <code>\eqslantgtr^(a)</code> | slanted equal to or greater-than |
| U+02A97 | | \lesseqgtrdot | | | | | | <code>\elsdot</code> | slanted equal to or less-than with dot inside |
| U+02A98 | | \gtrlessgtrdot | | | | | | <code>\egsdot</code> | slanted equal to or greater-than with dot inside |
| U+02A99 | | \eqless | | | | | | <code>\eqqless</code> | double-line equal to or less-than |
| U+02A9A | | \eqgtr | | | | | | <code>\eqqgtr</code> | double-line equal to or greater-than |
| U+02A9B | | \eqqslantless | | | | | | <code>\eqqslantless</code> | double-line slanted equal to or less-than |
| U+02A9C | | \eqqslantgtr | | | | | | <code>\eqqslantgtr</code> | double-line slanted equal to or greater-than |
| U+02A9D | | \simless | | | | | | <code>\simless</code> | similar or less-than |
| U+02A9E | | \simgtr | | | | | | <code>\simgtr</code> | similar or greater-than |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|--------------------------------------|--|
| U+02A9F | | | | | | | | <code>\simlE</code> | similar above less-than above equals sign |
| U+02AA0 | | | | | | | | <code>\simgE</code> | similar above greater-than above equals sign |
| U+02AA1 | | | | | | | | <code>\Lt</code> | double nested less-than |
| U+02AA2 | | | | | | | | <code>\Gt</code> | double nested greater-than |
| U+02AA3 | | | | | | | | <code>\partialmeetcontraction</code> | double less-than with underbar |
| U+02AA4 | | | | | | | | <code>\glj</code> | greater-than overlapping less-than |
| U+02AA5 | | | | | | | | <code>\gla</code> | greater-than beside less-than |
| U+02AA6 | | | | | | | | <code>\ltcc</code> | less-than closed by curve |
| U+02AA7 | | | | | | | | <code>\gtcc</code> | greater-than closed by curve |
| U+02AA8 | | | | | | | | <code>\lescc</code> | less-than closed by curve above slanted equal |
| U+02AA9 | | | | | | | | <code>\gescc</code> | greater-than closed by curve above slanted equal |
| U+02AAA | | | | | | | | <code>\smt</code> | smaller than |
| U+02AAB | | | | | | | | <code>\lat</code> | larger than |
| U+02AAC | | | | | | | | <code>\smte</code> | smaller than or equal to |
| U+02AAD | | | | | | | | <code>\late</code> | larger than or equal to |
| U+02AAE | | | | | | | | <code>\bumpeq</code> | equals sign with bumpy above |
| U+02AAF | | | | | | | | <code>\preceq^(p)</code> | precedes above single-line equals sign |
| U+02AB0 | | | | | | | | <code>\succeq^(p)</code> | succeeds above single-line equals sign |
| U+02AB1 | | | | | | | | <code>\precneq</code> | precedes above single-line not equal to |
| U+02AB2 | | | | | | | | <code>\succneq</code> | succeeds above single-line not equal to |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|------------------|-------------|-------------|---|---|----------|---|---|
| U+02AB3 | | \equiv | \equiv | \equiv | | | \equiv | <code>\preceqq</code> | precedes above equals sign |
| U+02AB4 | | \succ | \succ | \succ | | | \succ | <code>\succeqq</code> | succeeds above equals sign |
| U+02AB5 | | \nprec | \nprec | \nprec | | | \nprec | <code>\precneqq^(a)</code> | precedes above not equal to |
| U+02AB6 | | \nsucc | \nsucc | \nsucc | | | \nsucc | <code>\succneqq^(a)</code> | succeeds above not equal to |
| U+02AB7 | | \approx | \approx | \approx | | | | <code>\precapprox^(a)</code> | precedes above almost equal to |
| U+02AB8 | | \gtrsim | \gtrsim | \gtrsim | | | | <code>\succapprox^(a)</code> | succeeds above almost equal to |
| U+02AB9 | | \napprox | \napprox | \napprox | | | | <code>\precnapprox^(a)</code> | precedes above not almost equal to |
| U+02ABA | | \ngtrsim | \ngtrsim | \ngtrsim | | | | <code>\succnapprox^(a)</code> | succeeds above not almost equal to |
| U+02ABB | | $\prec\prec$ | | | | | | <code>\Prec</code> | double precedes |
| U+02ABC | | $\succ\succ$ | | | | | | <code>\Succ</code> | double succeeds |
| U+02ABD | | $\subset\cdot$ | | | | | | <code>\subsetdot</code> | subset with dot |
| U+02ABE | | $\supset\cdot$ | | | | | | <code>\supsetdot</code> | superset with dot |
| U+02ABF | | $\subset+$ | | | | | | <code>\subsetplus</code> | subset with plus sign below |
| U+02AC0 | | $\supset+$ | | | | | | <code>\supsetplus</code> | superset with plus sign below |
| U+02AC1 | | $\subset\times$ | | | | | | <code>\subsetmult</code> | subset with multiplication sign below |
| U+02AC2 | | $\supset\times$ | | | | | | <code>\supmult</code> | superset with multiplication sign below |
| U+02AC3 | | $\subseteq\cdot$ | | | | | | <code>\subedot</code> | subset of or equal to with dot above |
| U+02AC4 | | $\supseteq\cdot$ | | | | | | <code>\supedot</code> | superset of or equal to with dot above |
| U+02AC5 | | \subseteq | \subseteq | \subseteq | | | | <code>\subseteqq^(a)</code> | subset of above equals sign |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|--|--|
| U+02AC6 | | ⊇ | ⊇ | ⊇ | | | | <code>\supseteqq^(a)</code> | superset of above equals sign |
| U+02AC7 | | ⊆ | | | | | | <code>\subset</code> | subset of above tilde operator |
| U+02AC8 | | ⊇ | | | | | | <code>\supsim</code> | superset of above tilde operator |
| U+02AC9 | | ⊆ | | | | | | <code>\subsetapprox</code> | subset of above almost equal to |
| U+02ACA | | ⊇ | | | | | | <code>\supsetapprox</code> | superset of above almost equal to |
| U+02ACB | | ⊈ | ⊈ | ⊈ | | | | <code>\subsetneqq^(a)</code> | subset of above not equal to |
| U+02ACC | | ⊉ | ⊉ | ⊉ | | | | <code>\supsetneqq^(a)</code> | superset of above not equal to |
| U+02ACD | | ⌊ | | | | | | <code>\lsqhook</code> | square left open box operator |
| U+02ACE | | ⌋ | | | | | | <code>\rsqhook</code> | square right open box operator |
| U+02ACF | | ⊂ | | | | | | <code>\csub</code> | closed subset |
| U+02AD0 | | ⊃ | | | | | | <code>\csup</code> | closed superset |
| U+02AD1 | | ⊂ | | | | | | <code>\csube</code> | closed subset or equal to |
| U+02AD2 | | ⊃ | | | | | | <code>\csupe</code> | closed superset or equal to |
| U+02AD3 | | ⊆ | | | | | | <code>\subsup</code> | subset above superset |
| U+02AD4 | | ⊇ | | | | | | <code>\supsub</code> | superset above subset |
| U+02AD5 | | ⊆ | | | | | | <code>\subsub</code> | subset above subset |
| U+02AD6 | | ⊇ | | | | | | <code>\supsup</code> | superset above superset |
| U+02AD7 | | ⊃ | | | | | | <code>\supsub</code> | superset beside subset |
| U+02AD8 | | ⊃ | | | | | | <code>\supdsup</code> | superset beside and joined by dash with subset |
| U+02AD9 | | ⌋ | | | | | | <code>\forkv</code> | element of opening downwards |
| U+02ADA | | ⌋ | | | | | | <code>\topfork</code> | pitchfork with tee top |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|----------------|---|
| U+02ADB | | ↯ | | | | | | \mlcp | transversal intersection |
| U+02ADC | | ↷ | | | | | | \forks | forking |
| U+02ADD | | ↵ | | | | | | \forksnot | nonforking |
| U+02ADE | | ┘ | | | | | | \shortlefttack | short left tack |
| U+02ADF | | ┘ | | | | | | \shortdowntack | short down tack |
| U+02AE0 | | ┘ | | | | | | \shortuptack | short up tack |
| U+02AE2 | | ≡ | | | | | | \vDdash | vertical bar triple right turnstile |
| U+02AE3 | | ≡ | | | | | | \dashV | double vertical bar left turnstile |
| U+02AE4 | | ≡ | | | | | | \Dashv | vertical bar double left turnstile |
| U+02AE5 | | ≡ | | | | | | \DashV | double vertical bar double left turnstile |
| U+02AE6 | | ≡ | | | | | | \varVdash | long dash from left member of double vertical |
| U+02AE7 | | ┘ | | | | | | \Barv | short down tack with overbar |
| U+02AE8 | | ┘ | | | | | | \vBar | short up tack with underbar |
| U+02AE9 | | ┘ | | | | | | \vBarv | short up tack above short down tack |
| U+02AEA | | ≡ | | ≡ | | | | \barV | double down tack |
| U+02AEB | | ≡ | | ≡ | | | | \Vbar | double up tack |
| U+02AEC | | ≡ | | | | | | \Not | double stroke not sign |
| U+02AED | | ≡ | | | | | | \bNot | reversed double stroke not sign |
| U+02AEE | | ┘ | | | | | | \revnmid | does not divide with reversed negation slash |
| U+02AEF | | ⋈ | | | | | | \cirmid | vertical line with circle above |
| U+02AF0 | | ⋈ | | | | | | \midcir | vertical line with circle below |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|--|---|--|--|--|--|----|--------------------------------------|---|
| U+02AF2 | |  | | | | | | <code>\nhpar</code> | parallel with horizontal stroke |
| U+02AF3 | |  | | | | | | <code>\parsim</code> | parallel with tilde operator |
| U+02AF7 | |  | | | | | | <code>\lllnest</code> | stacked very much less-than |
| U+02AF8 | |  | | | | | | <code>\gggnest</code> | stacked very much greater-than |
| U+02AF9 | |  |  |  | | | | <code>\leqqslant</code> | double-line slanted less-than or equal to |
| U+02AFA | |  |  |  | | | | <code>\geqqslant</code> | double-line slanted greater-than or equal to |
| U+02B30 | |  | | | | | | <code>\circleonleftarrow</code> | left arrow with small circle |
| U+02B31 |  |  |  |  |  |  | | <code>\leftthreearrows</code> | three leftwards arrows |
| U+02B32 | |  | | | | | | <code>\leftarrowonoplus</code> | left arrow with circled plus |
| U+02B33 |  |  |  |  |  |  | | <code>\longleftsquigarrow</code> | long leftwards squiggle arrow |
| U+02B34 | |  | | | | | | <code>\nvtwoheadleftarrow</code> | leftwards two-headed arrow with vertical stroke |
| U+02B35 | |  | | | | | | <code>\nVtwoheadleftarrow</code> | leftwards two-headed arrow with double vertical stroke |
| U+02B36 | |  | | | | | | <code>\twoheadmapsfrom</code> | leftwards two-headed arrow from bar |
| U+02B37 | |  | | | | | | <code>\twoheadleftdbkarrow</code> | leftwards two-headed triple-dash arrow |
| U+02B38 | |  | | | | | | <code>\leftdotarrow</code> | leftwards arrow with dotted stem |
| U+02B39 | |  | | | | | | <code>\nvleftarrowtail</code> | leftwards arrow with tail with vertical stroke |
| U+02B3A | |  | | | | | | <code>\nVleftarrowtail</code> | leftwards arrow with tail with double vertical stroke |
| U+02B3B | |  | | | | | | <code>\twoheadleftarrowtail</code> | leftwards two-headed arrow with tail |
| U+02B3C | |  | | | | | | <code>\nvtwoheadleftarrowtail</code> | leftwards two-headed arrow with tail with vertical stroke |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|--------------------------------------|--|
| U+02B3D | | ↔ | | | | | | <code>\nVtwoheadleftarrowtail</code> | leftwards two-headed arrow with tail with double vertical stroke |
| U+02B3E | | ↔ | | | | | | <code>\leftarrow x</code> | leftwards arrow through x |
| U+02B3F | | ↵ | ↵ | | | | | <code>\leftcurvedarrow</code> | wave arrow pointing directly left |
| U+02B40 | | ↵ | | | | | | <code>\equalleftarrow</code> | equals sign above leftwards arrow |
| U+02B41 | | ↵ | | | | | | <code>\bsimilarleftarrow</code> | reverse tilde operator above leftwards arrow |
| U+02B42 | | ↵ | | | | | | <code>\leftarrowbackapprox</code> | leftwards arrow above reverse almost equal to |
| U+02B43 | | ➤ | | | | | | <code>\rightarrowgtr</code> | rightwards arrow through greater-than |
| U+02B44 | | ➤ | | | | | | <code>\rightarrowsupset</code> | rightwards arrow through subset |
| U+02B45 | | ↔ | | | | ↔ | | <code>\Lleftarrow</code> | leftwards quadruple arrow |
| U+02B46 | | ↔ | | | | ↔ | | <code>\Rrightarrow</code> | rightwards quadruple arrow |
| U+02B47 | | ➤ | | | | | | <code>\bsimilarrightarrow</code> | reverse tilde operator above rightwards arrow |
| U+02B48 | | ➤ | | | | | | <code>\rightarrowbackapprox</code> | rightwards arrow above reverse almost equal to |
| U+02B49 | | ↵ | | | | | | <code>\similarleftarrow</code> | tilde operator above leftwards arrow |
| U+02B4A | | ↵ | | | | | | <code>\leftarrowapprox</code> | leftwards arrow above almost equal to |
| U+02B4B | | ↵ | | | | | | <code>\leftarrowbsimilar</code> | leftwards arrow above reverse tilde operator |
| U+02B4C | | ➤ | | | | | | <code>\rightarrowbsimilar</code> | rightwards arrow above reverse tilde operator |

15 Alphabetical symbols, \mathalpha

15.1 Normal weight

15.1.1 Upright Greek, uppercase

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|-------------|------------------------|
| U+00391 | Α | Α | Α | Α | Α | Α | Α | \mupAlpha | capital alpha, greek |
| U+00392 | Β | Β | Β | Β | Β | Β | Β | \mupBeta | capital beta, greek |
| U+00393 | Γ | Γ | Γ | Γ | Γ | Γ | Γ | \mupGamma | capital gamma, greek |
| U+00394 | Δ | Δ | Δ | Δ | Δ | Δ | Δ | \mupDelta | capital delta, greek |
| U+00395 | Ε | Ε | Ε | Ε | Ε | Ε | Ε | \mupEpsilon | capital epsilon, greek |
| U+00396 | Ζ | Ζ | Ζ | Ζ | Ζ | Ζ | Ζ | \mupZeta | capital zeta, greek |
| U+00397 | Η | Η | Η | Η | Η | Η | Η | \mupEta | capital eta, greek |
| U+00398 | Θ | Θ | Θ | Θ | Θ | Θ | Θ | \mupTheta | capital theta, greek |
| U+00399 | Ι | Ι | Ι | Ι | Ι | Ι | Ι | \mupIota | capital iota, greek |
| U+0039A | Κ | Κ | Κ | Κ | Κ | Κ | Κ | \mupKappa | capital kappa, greek |
| U+0039B | Λ | Λ | Λ | Λ | Λ | Λ | Λ | \mupLambda | capital lambda, greek |
| U+0039C | Μ | Μ | Μ | Μ | Μ | Μ | Μ | \mupMu | capital mu, greek |
| U+0039D | Ν | Ν | Ν | Ν | Ν | Ν | Ν | \mupNu | capital nu, greek |
| U+0039E | Ξ | Ξ | Ξ | Ξ | Ξ | Ξ | Ξ | \mupXi | capital xi, greek |
| U+0039F | Ο | Ο | Ο | Ο | Ο | Ο | Ο | \mupOmicron | capital omicron, greek |
| U+003A0 | Π | Π | Π | Π | Π | Π | Π | \mupPi | capital pi, greek |
| U+003A1 | Ρ | Ρ | Ρ | Ρ | Ρ | Ρ | Ρ | \mupRho | capital rho, greek |
| U+003A3 | Σ | Σ | Σ | Σ | Σ | Σ | Σ | \mupSigma | capital sigma, greek |
| U+003A4 | Τ | Τ | Τ | Τ | Τ | Τ | Τ | \mupTau | capital tau, greek |
| U+003A5 | Υ | Υ | Υ | Υ | Υ | Υ | Υ | \mupUpsilon | capital upsilon, greek |
| U+003A6 | Φ | Φ | Φ | Φ | Φ | Φ | Φ | \mupPhi | capital phi, greek |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|-----------|----------------------|
| U+003A7 | Χ | Χ | Χ | Χ | Χ | Χ | Χ | \mupChi | capital chi, greek |
| U+003A8 | Ψ | Ψ | Ψ | Ψ | Ψ | Ψ | Ψ | \mupPsi | capital psi, greek |
| U+003A9 | Ω | Ω | Ω | Ω | Ω | Ω | Ω | \mupOmega | capital omega, greek |

15.1.2 Upright Greek, lowercase

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|----------------|------------------------------------|
| U+003B1 | α | α | α | α | α | α | α | \mupalpha | small alpha, greek |
| U+003B2 | β | β | β | β | β | β | β | \mupbeta | small beta, greek |
| U+003B3 | γ | γ | γ | γ | γ | γ | γ | \mupgamma | small gamma, greek |
| U+003B4 | δ | δ | δ | δ | δ | δ | δ | \mupdelta | small delta, greek |
| U+003B5 | ε | ε | ε | ε | ε | ε | ε | \mupvarepsilon | rounded small varepsilon, greek |
| U+003B6 | ζ | ζ | ζ | ζ | ζ | ζ | ζ | \mupzeta | small zeta, greek |
| U+003B7 | η | η | η | η | η | η | η | \mupeta | small eta, greek |
| U+003B8 | θ | θ | θ | θ | θ | θ | θ | \muptheta | straight theta, small theta, greek |
| U+003B9 | ι | ι | ι | ι | ι | ι | ι | \mupiota | small iota, greek |
| U+003BA | κ | κ | κ | κ | κ | κ | κ | \mupkappa | small kappa, greek |
| U+003BB | λ | λ | λ | λ | λ | λ | λ | \muplambda | small lambda, greek |
| U+003BC | μ | μ | μ | μ | μ | μ | μ | \mupmu | small mu, greek |
| U+003BD | ν | ν | ν | ν | ν | ν | ν | \mupnu | small nu, greek |
| U+003BE | ξ | ξ | ξ | ξ | ξ | ξ | ξ | \mupxi | small xi, greek |
| U+003BF | ο | ο | ο | ο | ο | ο | ο | \mupomicron | small omicron, greek |
| U+003C0 | π | π | π | π | π | π | π | \muppi | small pi, greek |
| U+003C1 | ρ | ρ | ρ | ρ | ρ | ρ | ρ | \muprho | small rho, greek |
| U+003C2 | ς | ς | ς | ς | ς | ς | ς | \mupvarsigma | terminal sigma, greek |

| usv | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|-----------------|------------------------------------|
| U+003C3 | σ | σ | σ | σ | σ | σ | σ | \mupsigma | small sigma, greek |
| U+003C4 | τ | τ | τ | τ | τ | τ | τ | \muptau | small tau, greek |
| U+003C5 | υ | υ | υ | υ | υ | υ | υ | \mupupsilon | small upsilon, greek |
| U+003C6 | φ | φ | φ | φ | φ | φ | φ | \mupvarphi | curly or open small phi, greek |
| U+003C7 | χ | χ | χ | χ | χ | χ | χ | \mupchi | small chi, greek |
| U+003C8 | ψ | ψ | ψ | ψ | ψ | ψ | ψ | \muppsi | small psi, greek |
| U+003C9 | ω | ω | ω | ω | ω | ω | ω | \mupomega | small omega, greek |
| U+003D1 | ϑ | ϑ | ϑ | ϑ | ϑ | ϑ | ϑ | \mupvarthetaeta | /varthetaeta - curly or open theta |
| U+003D5 | φ | φ | φ | φ | φ | φ | φ | \mupphi | /straightphi - small phi, greek |
| U+003D6 | ω | ω | ω | ω | ω | ω | ω | \mupvarpi | rounded small pi (pomega), greek |
| U+003DC | | Ϝ | | | | | Ϝ | \upDigamma | capital digamma |
| U+003DD | | ϝ | ϝ | Ϟ | | | ϝ | \updigamma | old greek small letter digamma |
| U+003F0 | κ | κ | κ | κ | κ | κ | κ | \mupvarkappa | rounded small kappa, greek |
| U+003F1 | ρ | ρ | ρ | ρ | ρ | ρ | ρ | \mupvarrho | rounded small rho, greek |
| U+003F4 | Θ | Θ | Θ | Θ | Θ | Θ | Θ | \mupvarTheta | greek capital theta symbol |
| U+003F5 | ε | ε | ε | ε | ε | ε | ε | \mupepsilon | greek lunate varepsilon symbol |

15.1.3 Italic, Latin, uppercase

| usv | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------|----------|----------|----------|----------|----------|----------|-------|-------------------------------|
| U+1D434 | <i>A</i> | <i>A</i> | <i>A</i> | <i>A</i> | <i>A</i> | <i>A</i> | <i>A</i> | \mitA | mathematical italic capital a |
| U+1D435 | <i>B</i> | <i>B</i> | <i>B</i> | <i>B</i> | <i>B</i> | <i>B</i> | <i>B</i> | \mitB | mathematical italic capital b |
| U+1D436 | <i>C</i> | <i>C</i> | <i>C</i> | <i>C</i> | <i>C</i> | <i>C</i> | <i>C</i> | \mitC | mathematical italic capital c |
| U+1D437 | <i>D</i> | <i>D</i> | <i>D</i> | <i>D</i> | <i>D</i> | <i>D</i> | <i>D</i> | \mitD | mathematical italic capital d |
| U+1D438 | <i>E</i> | <i>E</i> | <i>E</i> | <i>E</i> | <i>E</i> | <i>E</i> | <i>E</i> | \mitE | mathematical italic capital e |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------|----------|----------|----------|----------|----------|----------|-------|-------------------------------|
| U+1D439 | <i>F</i> | <i>F</i> | <i>F</i> | <i>F</i> | <i>F</i> | <i>F</i> | <i>F</i> | \mitF | mathematical italic capital f |
| U+1D43A | <i>G</i> | <i>G</i> | <i>G</i> | <i>G</i> | <i>G</i> | <i>G</i> | <i>G</i> | \mitG | mathematical italic capital g |
| U+1D43B | <i>H</i> | <i>H</i> | <i>H</i> | <i>H</i> | <i>H</i> | <i>H</i> | <i>H</i> | \mitH | mathematical italic capital h |
| U+1D43C | <i>I</i> | <i>I</i> | <i>I</i> | <i>I</i> | <i>I</i> | <i>I</i> | <i>I</i> | \mitI | mathematical italic capital i |
| U+1D43D | <i>J</i> | <i>J</i> | <i>J</i> | <i>J</i> | <i>J</i> | <i>J</i> | <i>J</i> | \mitJ | mathematical italic capital j |
| U+1D43E | <i>K</i> | <i>K</i> | <i>K</i> | <i>K</i> | <i>K</i> | <i>K</i> | <i>K</i> | \mitK | mathematical italic capital k |
| U+1D43F | <i>L</i> | <i>L</i> | <i>L</i> | <i>L</i> | <i>L</i> | <i>L</i> | <i>L</i> | \mitL | mathematical italic capital l |
| U+1D440 | <i>M</i> | <i>M</i> | <i>M</i> | <i>M</i> | <i>M</i> | <i>M</i> | <i>M</i> | \mitM | mathematical italic capital m |
| U+1D441 | <i>N</i> | <i>N</i> | <i>N</i> | <i>N</i> | <i>N</i> | <i>N</i> | <i>N</i> | \mitN | mathematical italic capital n |
| U+1D442 | <i>O</i> | <i>O</i> | <i>O</i> | <i>O</i> | <i>O</i> | <i>O</i> | <i>O</i> | \mitO | mathematical italic capital o |
| U+1D443 | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | \mitP | mathematical italic capital p |
| U+1D444 | <i>Q</i> | <i>Q</i> | <i>Q</i> | <i>Q</i> | <i>Q</i> | <i>Q</i> | <i>Q</i> | \mitQ | mathematical italic capital q |
| U+1D445 | <i>R</i> | <i>R</i> | <i>R</i> | <i>R</i> | <i>R</i> | <i>R</i> | <i>R</i> | \mitR | mathematical italic capital r |
| U+1D446 | <i>S</i> | <i>S</i> | <i>S</i> | <i>S</i> | <i>S</i> | <i>S</i> | <i>S</i> | \mitS | mathematical italic capital s |
| U+1D447 | <i>T</i> | <i>T</i> | <i>T</i> | <i>T</i> | <i>T</i> | <i>T</i> | <i>T</i> | \mitT | mathematical italic capital t |
| U+1D448 | <i>U</i> | <i>U</i> | <i>U</i> | <i>U</i> | <i>U</i> | <i>U</i> | <i>U</i> | \mitU | mathematical italic capital u |
| U+1D449 | <i>V</i> | <i>V</i> | <i>V</i> | <i>V</i> | <i>V</i> | <i>V</i> | <i>V</i> | \mitV | mathematical italic capital v |
| U+1D44A | <i>W</i> | <i>W</i> | <i>W</i> | <i>W</i> | <i>W</i> | <i>W</i> | <i>W</i> | \mitW | mathematical italic capital w |
| U+1D44B | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | \mitX | mathematical italic capital x |
| U+1D44C | <i>Y</i> | <i>Y</i> | <i>Y</i> | <i>Y</i> | <i>Y</i> | <i>Y</i> | <i>Y</i> | \mitY | mathematical italic capital y |
| U+1D44D | <i>Z</i> | <i>Z</i> | <i>Z</i> | <i>Z</i> | <i>Z</i> | <i>Z</i> | <i>Z</i> | \mitZ | mathematical italic capital z |

15.1.4 Italic, Latin, lowercase

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------|----------|----------|----------|----------|----------|----------|-------|-----------------------------|
| U+1D44E | <i>a</i> | <i>a</i> | <i>a</i> | <i>a</i> | <i>a</i> | <i>a</i> | <i>a</i> | \mita | mathematical italic small a |
| U+1D44F | <i>b</i> | <i>b</i> | <i>b</i> | <i>b</i> | <i>b</i> | <i>b</i> | <i>b</i> | \mitb | mathematical italic small b |
| U+1D450 | <i>c</i> | <i>c</i> | <i>c</i> | <i>c</i> | <i>c</i> | <i>c</i> | <i>c</i> | \mitc | mathematical italic small c |
| U+1D451 | <i>d</i> | <i>d</i> | <i>d</i> | <i>d</i> | <i>d</i> | <i>d</i> | <i>d</i> | \mitd | mathematical italic small d |
| U+1D452 | <i>e</i> | <i>e</i> | <i>e</i> | <i>e</i> | <i>e</i> | <i>e</i> | <i>e</i> | \mite | mathematical italic small e |
| U+1D453 | <i>f</i> | <i>f</i> | <i>f</i> | <i>f</i> | <i>f</i> | <i>f</i> | <i>f</i> | \mitf | mathematical italic small f |
| U+1D454 | <i>g</i> | <i>g</i> | <i>g</i> | <i>g</i> | <i>g</i> | <i>g</i> | <i>g</i> | \mitg | mathematical italic small g |
| U+1D456 | <i>i</i> | <i>i</i> | <i>i</i> | <i>i</i> | <i>i</i> | <i>i</i> | <i>i</i> | \miti | mathematical italic small i |
| U+1D457 | <i>j</i> | <i>j</i> | <i>j</i> | <i>j</i> | <i>j</i> | <i>j</i> | <i>j</i> | \mitj | mathematical italic small j |
| U+1D458 | <i>k</i> | <i>k</i> | <i>k</i> | <i>k</i> | <i>k</i> | <i>k</i> | <i>k</i> | \mitk | mathematical italic small k |
| U+1D459 | <i>l</i> | <i>l</i> | <i>l</i> | <i>ℓ</i> | <i>l</i> | <i>l</i> | <i>l</i> | \mitl | mathematical italic small l |
| U+1D45A | <i>m</i> | <i>m</i> | <i>m</i> | <i>m</i> | <i>m</i> | <i>m</i> | <i>m</i> | \mitm | mathematical italic small m |
| U+1D45B | <i>n</i> | <i>n</i> | <i>n</i> | <i>n</i> | <i>n</i> | <i>n</i> | <i>n</i> | \mitn | mathematical italic small n |
| U+1D45C | <i>o</i> | <i>o</i> | <i>o</i> | <i>o</i> | <i>o</i> | <i>o</i> | <i>o</i> | \mito | mathematical italic small o |
| U+1D45D | <i>p</i> | <i>p</i> | <i>p</i> | <i>p</i> | <i>p</i> | <i>p</i> | <i>p</i> | \mitp | mathematical italic small p |
| U+1D45E | <i>q</i> | <i>q</i> | <i>q</i> | <i>q</i> | <i>q</i> | <i>q</i> | <i>q</i> | \mitq | mathematical italic small q |
| U+1D45F | <i>r</i> | <i>r</i> | <i>r</i> | <i>r</i> | <i>r</i> | <i>r</i> | <i>r</i> | \mitr | mathematical italic small r |
| U+1D460 | <i>s</i> | <i>s</i> | <i>s</i> | <i>s</i> | <i>s</i> | <i>s</i> | <i>s</i> | \mits | mathematical italic small s |
| U+1D461 | <i>t</i> | <i>t</i> | <i>t</i> | <i>t</i> | <i>t</i> | <i>t</i> | <i>t</i> | \mitt | mathematical italic small t |
| U+1D462 | <i>u</i> | <i>u</i> | <i>u</i> | <i>u</i> | <i>u</i> | <i>u</i> | <i>u</i> | \mitu | mathematical italic small u |
| U+1D463 | <i>v</i> | <i>v</i> | <i>v</i> | <i>v</i> | <i>v</i> | <i>v</i> | <i>v</i> | \mitv | mathematical italic small v |
| U+1D464 | <i>w</i> | <i>w</i> | <i>w</i> | <i>w</i> | <i>w</i> | <i>w</i> | <i>w</i> | \mitw | mathematical italic small w |
| U+1D465 | <i>x</i> | <i>x</i> | <i>x</i> | <i>x</i> | <i>x</i> | <i>x</i> | <i>x</i> | \mitx | mathematical italic small x |
| U+1D466 | <i>y</i> | <i>y</i> | <i>y</i> | <i>y</i> | <i>y</i> | <i>y</i> | <i>y</i> | \mity | mathematical italic small y |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------|----------|----------|----------|----------|----------|----------|--------------------|-----------------------------|
| U+1D467 | <i>z</i> | <i>z</i> | <i>z</i> | <i>z</i> | <i>z</i> | <i>z</i> | <i>z</i> | <code>\mitz</code> | mathematical italic small z |

15.1.5 Italic Greek, uppercase

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------|----------|----------|----------|----------|----------|----------|---------------------------|--|
| U+1D6E2 | <i>Α</i> | <i>Α</i> | <i>Α</i> | <i>Α</i> | <i>Α</i> | <i>Α</i> | <i>Α</i> | <code>\mitAlpha</code> | mathematical italic capital alpha |
| U+1D6E3 | <i>Β</i> | <i>Β</i> | <i>Β</i> | <i>Β</i> | <i>Β</i> | <i>Β</i> | <i>Β</i> | <code>\mitBeta</code> | mathematical italic capital beta |
| U+1D6E4 | <i>Γ</i> | <i>Γ</i> | <i>Γ</i> | <i>Γ</i> | <i>Γ</i> | <i>Γ</i> | <i>Γ</i> | <code>\mitGamma</code> | mathematical italic capital gamma |
| U+1D6E5 | <i>Δ</i> | <i>Δ</i> | <i>Δ</i> | <i>Δ</i> | <i>Δ</i> | <i>Δ</i> | <i>Δ</i> | <code>\mitDelta</code> | mathematical italic capital delta |
| U+1D6E6 | <i>Ε</i> | <i>Ε</i> | <i>Ε</i> | <i>Ε</i> | <i>Ε</i> | <i>Ε</i> | <i>Ε</i> | <code>\mitEpsilon</code> | mathematical italic capital epsilon |
| U+1D6E7 | <i>Ζ</i> | <i>Ζ</i> | <i>Ζ</i> | <i>Ζ</i> | <i>Ζ</i> | <i>Ζ</i> | <i>Ζ</i> | <code>\mitZeta</code> | mathematical italic capital zeta |
| U+1D6E8 | <i>Η</i> | <i>Η</i> | <i>Η</i> | <i>Η</i> | <i>Η</i> | <i>Η</i> | <i>Η</i> | <code>\mitEta</code> | mathematical italic capital eta |
| U+1D6E9 | <i>Θ</i> | <i>Θ</i> | <i>Θ</i> | <i>Θ</i> | <i>Θ</i> | <i>Θ</i> | <i>Θ</i> | <code>\mitTheta</code> | mathematical italic capital theta |
| U+1D6EA | <i>Ι</i> | <i>Ι</i> | <i>Ι</i> | <i>Ι</i> | <i>Ι</i> | <i>Ι</i> | <i>Ι</i> | <code>\mitIota</code> | mathematical italic capital iota |
| U+1D6EB | <i>Κ</i> | <i>Κ</i> | <i>Κ</i> | <i>Κ</i> | <i>Κ</i> | <i>Κ</i> | <i>Κ</i> | <code>\mitKappa</code> | mathematical italic capital kappa |
| U+1D6EC | <i>Λ</i> | <i>Λ</i> | <i>Λ</i> | <i>Λ</i> | <i>Λ</i> | <i>Λ</i> | <i>Λ</i> | <code>\mitLambda</code> | mathematical italic capital lambda |
| U+1D6ED | <i>Μ</i> | <i>Μ</i> | <i>Μ</i> | <i>Μ</i> | <i>Μ</i> | <i>Μ</i> | <i>Μ</i> | <code>\mitMu</code> | mathematical italic capital mu |
| U+1D6EE | <i>Ν</i> | <i>Ν</i> | <i>Ν</i> | <i>Ν</i> | <i>Ν</i> | <i>Ν</i> | <i>Ν</i> | <code>\mitNu</code> | mathematical italic capital nu |
| U+1D6EF | <i>Ξ</i> | <i>Ξ</i> | <i>Ξ</i> | <i>Ξ</i> | <i>Ξ</i> | <i>Ξ</i> | <i>Ξ</i> | <code>\mitXi</code> | mathematical italic capital xi |
| U+1D6F0 | <i>Ο</i> | <i>Ο</i> | <i>Ο</i> | <i>Ο</i> | <i>Ο</i> | <i>Ο</i> | <i>Ο</i> | <code>\mitOmicron</code> | mathematical italic capital omicron |
| U+1D6F1 | <i>Π</i> | <i>Π</i> | <i>Π</i> | <i>Π</i> | <i>Π</i> | <i>Π</i> | <i>Π</i> | <code>\mitPi</code> | mathematical italic capital pi |
| U+1D6F2 | <i>Ρ</i> | <i>Ρ</i> | <i>Ρ</i> | <i>Ρ</i> | <i>Ρ</i> | <i>Ρ</i> | <i>Ρ</i> | <code>\mitRho</code> | mathematical italic capital rho |
| U+1D6F3 | <i>Θ</i> | <i>Θ</i> | <i>Θ</i> | <i>Θ</i> | <i>Θ</i> | <i>Θ</i> | <i>Θ</i> | <code>\mitvarTheta</code> | mathematical italic capital theta symbol |
| U+1D6F4 | <i>Σ</i> | <i>Σ</i> | <i>Σ</i> | <i>Σ</i> | <i>Σ</i> | <i>Σ</i> | <i>Σ</i> | <code>\mitSigma</code> | mathematical italic capital sigma |
| U+1D6F5 | <i>Τ</i> | <i>Τ</i> | <i>Τ</i> | <i>Τ</i> | <i>Τ</i> | <i>Τ</i> | <i>Τ</i> | <code>\mitTau</code> | mathematical italic capital tau |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|------------|------------|------------|------------|------------|------------|------------|--------------------------|-------------------------------------|
| U+1D6F6 | Υ | Υ | Υ | Υ | Υ | Υ | Υ | <code>\mitUpsilon</code> | mathematical italic capital upsilon |
| U+1D6F7 | Φ | Φ | Φ | Φ | Φ | Φ | Φ | <code>\mitPhi</code> | mathematical italic capital phi |
| U+1D6F8 | \Chi | \Chi | \Chi | \Chi | \Chi | \Chi | \Chi | <code>\mitChi</code> | mathematical italic capital chi |
| U+1D6F9 | Ψ | Ψ | Ψ | Ψ | Ψ | Ψ | Ψ | <code>\mitPsi</code> | mathematical italic capital psi |
| U+1D6FA | Ω | Ω | Ω | Ω | Ω | Ω | Ω | <code>\mitOmega</code> | mathematical italic capital omega |

15.1.6 Italic Greek, lowercase

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------------------|--------------------------------------|
| U+1D6FC | α | α | α | α | α | α | α | <code>\mitalpha</code> | mathematical italic small alpha |
| U+1D6FD | β | β | β | β | β | β | β | <code>\mitbeta</code> | mathematical italic small beta |
| U+1D6FE | γ | γ | γ | γ | γ | γ | γ | <code>\mitgamma</code> | mathematical italic small gamma |
| U+1D6FF | δ | δ | δ | δ | δ | δ | δ | <code>\mitdelta</code> | mathematical italic small delta |
| U+1D700 | ε | ε | ε | ε | ε | ε | ε | <code>\mitvarepsilon</code> | mathematical italic small varepsilon |
| U+1D701 | ζ | ζ | ζ | ζ | ζ | ζ | ζ | <code>\mitzeta</code> | mathematical italic small zeta |
| U+1D702 | η | η | η | η | η | η | η | <code>\miteta</code> | mathematical italic small eta |
| U+1D703 | θ | θ | θ | θ | θ | θ | θ | <code>\mittheta</code> | mathematical italic small theta |
| U+1D704 | ι | ι | ι | ι | ι | ι | ι | <code>\mitiota</code> | mathematical italic small iota |
| U+1D705 | κ | κ | κ | κ | κ | κ | κ | <code>\mitkappa</code> | mathematical italic small kappa |
| U+1D706 | λ | λ | λ | λ | λ | λ | λ | <code>\mitlambda</code> | mathematical italic small lambda |
| U+1D707 | μ | μ | μ | μ | μ | μ | μ | <code>\mitmu</code> | mathematical italic small mu |
| U+1D708 | ν | ν | ν | ν | ν | ν | ν | <code>\mitnu</code> | mathematical italic small nu |
| U+1D709 | ξ | ξ | ξ | ξ | ξ | ξ | ξ | <code>\mitxi</code> | mathematical italic small xi |
| U+1D70A | \omicron | \omicron | \omicron | \omicron | \omicron | \omicron | \omicron | <code>\mitomicron</code> | mathematical italic small omicron |
| U+1D70B | π | π | π | π | π | π | π | <code>\mitpi</code> | mathematical italic small pi |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------------|--|
| U+1D70C | ρ | ρ | ρ | ρ | ρ | ρ | ρ | <code>\mitrho</code> | mathematical italic small rho |
| U+1D70D | ς | ς | ς | ς | ς | ς | ς | <code>\mitvarsigma</code> | mathematical italic small final sigma |
| U+1D70E | σ | σ | σ | σ | σ | σ | σ | <code>\mitsigma</code> | mathematical italic small sigma |
| U+1D70F | τ | τ | τ | τ | τ | τ | τ | <code>\mittau</code> | mathematical italic small tau |
| U+1D710 | υ | υ | υ | υ | υ | υ | υ | <code>\mitupsilon</code> | mathematical italic small upsilon |
| U+1D711 | φ | φ | φ | φ | φ | φ | φ | <code>\mitvarphi</code> | mathematical italic small phi |
| U+1D712 | χ | χ | χ | χ | χ | χ | χ | <code>\mitchi</code> | mathematical italic small chi |
| U+1D713 | ψ | ψ | ψ | ψ | ψ | ψ | ψ | <code>\mitpsi</code> | mathematical italic small psi |
| U+1D714 | ω | ω | ω | ω | ω | ω | ω | <code>\mitomega</code> | mathematical italic small omega |
| U+1D715 | ∂ | ∂ | ∂ | ∂ | ∂ | ∂ | ∂ | <code>\mitpartial</code> | mathematical italic partial differential |
| U+1D716 | ϵ | ϵ | ϵ | ϵ | ϵ | ϵ | ϵ | <code>\mitepsilon</code> | mathematical italic varepsilon symbol |
| U+1D717 | ϑ | ϑ | ϑ | ϑ | ϑ | ϑ | ϑ | <code>\mitvartheta</code> | mathematical italic theta symbol |
| U+1D718 | κ | κ | κ | κ | κ | κ | κ | <code>\mitvarkappa</code> | mathematical italic kappa symbol |
| U+1D719 | ϕ | ϕ | ϕ | ϕ | ϕ | ϕ | ϕ | <code>\mitphi</code> | mathematical italic phi symbol |
| U+1D71A | ϱ | ϱ | ϱ | ϱ | ϱ | ϱ | ϱ | <code>\mitvarrho</code> | mathematical italic rho symbol |
| U+1D71B | ϖ | ϖ | ϖ | ϖ | ϖ | ϖ | ϖ | <code>\mitvarpi</code> | mathematical italic pi symbol |

15.1.7 Script, Latin, uppercase

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------------|-------------------------------|
| U+1D49C | \mathcal{A} | \mathcal{A} | \mathcal{A} | \mathcal{A} | \mathcal{A} | \mathcal{A} | \mathcal{A} | <code>\mscrA</code> | mathematical script capital a |
| U+1D49E | \mathcal{C} | \mathcal{C} | \mathcal{C} | \mathcal{C} | \mathcal{C} | \mathcal{C} | \mathcal{C} | <code>\mscrC</code> | mathematical script capital c |
| U+1D49F | \mathcal{D} | \mathcal{D} | \mathcal{D} | \mathcal{D} | \mathcal{D} | \mathcal{D} | \mathcal{D} | <code>\mscrD</code> | mathematical script capital d |
| U+1D4A2 | \mathcal{G} | \mathcal{G} | \mathcal{G} | \mathcal{G} | \mathcal{G} | \mathcal{G} | \mathcal{G} | <code>\mscrG</code> | mathematical script capital g |
| U+1D4A5 | \mathcal{J} | \mathcal{J} | \mathcal{J} | \mathcal{J} | \mathcal{J} | \mathcal{J} | \mathcal{J} | <code>\mscrJ</code> | mathematical script capital j |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------|----------|----------|----------|----------|----------|----------|---------------------|-------------------------------|
| U+1D4A6 | <i>K</i> | <i>K</i> | <i>K</i> | <i>K</i> | <i>K</i> | <i>K</i> | <i>K</i> | <code>\mscrK</code> | mathematical script capital k |
| U+1D4A9 | <i>N</i> | <i>N</i> | <i>N</i> | <i>N</i> | <i>N</i> | <i>N</i> | <i>N</i> | <code>\mscrN</code> | mathematical script capital n |
| U+1D4AA | <i>O</i> | <i>O</i> | <i>O</i> | <i>O</i> | <i>O</i> | <i>O</i> | <i>O</i> | <code>\mscrO</code> | mathematical script capital o |
| U+1D4AB | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <code>\mscrP</code> | mathematical script capital p |
| U+1D4AC | <i>Q</i> | <i>Q</i> | <i>Q</i> | <i>Q</i> | <i>Q</i> | <i>Q</i> | <i>Q</i> | <code>\mscrQ</code> | mathematical script capital q |
| U+1D4AE | <i>S</i> | <i>S</i> | <i>S</i> | <i>S</i> | <i>S</i> | <i>S</i> | <i>S</i> | <code>\mscrS</code> | mathematical script capital s |
| U+1D4AF | <i>T</i> | <i>T</i> | <i>T</i> | <i>T</i> | <i>T</i> | <i>T</i> | <i>T</i> | <code>\mscrT</code> | mathematical script capital t |
| U+1D4B0 | <i>U</i> | <i>U</i> | <i>U</i> | <i>U</i> | <i>U</i> | <i>U</i> | <i>U</i> | <code>\mscrU</code> | mathematical script capital u |
| U+1D4B1 | <i>V</i> | <i>V</i> | <i>V</i> | <i>V</i> | <i>V</i> | <i>V</i> | <i>V</i> | <code>\mscrV</code> | mathematical script capital v |
| U+1D4B2 | <i>W</i> | <i>W</i> | <i>W</i> | <i>W</i> | <i>W</i> | <i>W</i> | <i>W</i> | <code>\mscrW</code> | mathematical script capital w |
| U+1D4B3 | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <code>\mscrX</code> | mathematical script capital x |
| U+1D4B4 | <i>Y</i> | <i>Y</i> | <i>Y</i> | <i>Y</i> | <i>Y</i> | <i>Y</i> | <i>Y</i> | <code>\mscrY</code> | mathematical script capital y |
| U+1D4B5 | <i>Z</i> | <i>Z</i> | <i>Z</i> | <i>Z</i> | <i>Z</i> | <i>Z</i> | <i>Z</i> | <code>\mscrZ</code> | mathematical script capital z |

15.1.8 Script, Latin, lowercase

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|----------|---|---|----------|----------|----------|---------------------|-----------------------------|
| U+1D4B6 | | <i>a</i> | | | <i>a</i> | <i>a</i> | <i>a</i> | <code>\mscra</code> | mathematical script small a |
| U+1D4B7 | | <i>b</i> | | | <i>b</i> | <i>b</i> | <i>b</i> | <code>\mscrb</code> | mathematical script small b |
| U+1D4B8 | | <i>c</i> | | | <i>c</i> | <i>c</i> | <i>c</i> | <code>\mscrc</code> | mathematical script small c |
| U+1D4B9 | | <i>d</i> | | | <i>d</i> | <i>d</i> | <i>d</i> | <code>\mscrd</code> | mathematical script small d |
| U+1D4BB | | <i>f</i> | | | <i>f</i> | <i>f</i> | <i>f</i> | <code>\mscrf</code> | mathematical script small f |
| U+1D4BD | | <i>h</i> | | | <i>h</i> | <i>h</i> | <i>h</i> | <code>\mscrh</code> | mathematical script small h |
| U+1D4BE | | <i>i</i> | | | <i>i</i> | <i>i</i> | <i>i</i> | <code>\mscri</code> | mathematical script small i |
| U+1D4BF | | <i>j</i> | | | <i>j</i> | <i>j</i> | <i>j</i> | <code>\mscrj</code> | mathematical script small j |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|----------|---|---|----------|----------|----------|----------------------|-----------------------------|
| U+1D4C0 | | <i>k</i> | | | <i>k</i> | <i>k</i> | <i>k</i> | <code>\mscrk</code> | mathematical script small k |
| U+1D4C1 | | <i>l</i> | | | <i>l</i> | <i>l</i> | <i>l</i> | <code>\mscr l</code> | mathematical script small l |
| U+1D4C2 | | <i>m</i> | | | <i>m</i> | <i>m</i> | <i>m</i> | <code>\mscr m</code> | mathematical script small m |
| U+1D4C3 | | <i>n</i> | | | <i>n</i> | <i>n</i> | <i>n</i> | <code>\mscr n</code> | mathematical script small n |
| U+1D4C5 | | <i>p</i> | | | <i>p</i> | <i>p</i> | <i>p</i> | <code>\mscr p</code> | mathematical script small p |
| U+1D4C6 | | <i>q</i> | | | <i>q</i> | <i>q</i> | <i>q</i> | <code>\mscr q</code> | mathematical script small q |
| U+1D4C7 | | <i>r</i> | | | <i>r</i> | <i>r</i> | <i>r</i> | <code>\mscr r</code> | mathematical script small r |
| U+1D4C8 | | <i>s</i> | | | <i>s</i> | <i>s</i> | <i>s</i> | <code>\mscr s</code> | mathematical script small s |
| U+1D4C9 | | <i>t</i> | | | <i>t</i> | <i>t</i> | <i>t</i> | <code>\mscr t</code> | mathematical script small t |
| U+1D4CA | | <i>u</i> | | | <i>u</i> | <i>u</i> | <i>u</i> | <code>\mscr u</code> | mathematical script small u |
| U+1D4CB | | <i>v</i> | | | <i>v</i> | <i>v</i> | <i>v</i> | <code>\mscr v</code> | mathematical script small v |
| U+1D4CC | | <i>w</i> | | | <i>w</i> | <i>w</i> | <i>w</i> | <code>\mscr w</code> | mathematical script small w |
| U+1D4CD | | <i>x</i> | | | <i>x</i> | <i>x</i> | <i>x</i> | <code>\mscr x</code> | mathematical script small x |
| U+1D4CE | | <i>y</i> | | | <i>y</i> | <i>y</i> | <i>y</i> | <code>\mscr y</code> | mathematical script small y |
| U+1D4CF | | <i>z</i> | | | <i>z</i> | <i>z</i> | <i>z</i> | <code>\mscr z</code> | mathematical script small z |

15.1.9 Fraktur, Latin, uppercase

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------|----------|----------|----------|----------|----------|----------|----------------------|--------------------------------|
| U+1D504 | <i>A</i> | <i>A</i> | <i>A</i> | <i>A</i> | <i>A</i> | <i>A</i> | <i>A</i> | <code>\mfrakA</code> | mathematical fraktur capital a |
| U+1D505 | <i>B</i> | <i>B</i> | <i>B</i> | <i>B</i> | <i>B</i> | <i>B</i> | <i>B</i> | <code>\mfrakB</code> | mathematical fraktur capital b |
| U+1D507 | <i>D</i> | <i>D</i> | <i>D</i> | <i>D</i> | <i>D</i> | <i>D</i> | <i>D</i> | <code>\mfrakD</code> | mathematical fraktur capital d |
| U+1D508 | <i>E</i> | <i>E</i> | <i>E</i> | <i>E</i> | <i>E</i> | <i>E</i> | <i>E</i> | <code>\mfrakE</code> | mathematical fraktur capital e |
| U+1D509 | <i>F</i> | <i>F</i> | <i>F</i> | <i>F</i> | <i>F</i> | <i>F</i> | <i>F</i> | <code>\mfrakF</code> | mathematical fraktur capital f |
| U+1D50A | <i>G</i> | <i>G</i> | <i>G</i> | <i>G</i> | <i>G</i> | <i>G</i> | <i>G</i> | <code>\mfrakG</code> | mathematical fraktur capital g |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|---------|--------------------------------|
| U+1D50D | 𝔍 | 𝔖 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | \mfracJ | mathematical fraktur capital j |
| U+1D50E | 𝔖 | 𝔖 | 𝔖 | 𝔖 | 𝔖 | 𝔖 | 𝔖 | \mfracK | mathematical fraktur capital k |
| U+1D50F | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | \mfracL | mathematical fraktur capital l |
| U+1D510 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | \mfracM | mathematical fraktur capital m |
| U+1D511 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | \mfracN | mathematical fraktur capital n |
| U+1D512 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | \mfracO | mathematical fraktur capital o |
| U+1D513 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | \mfracP | mathematical fraktur capital p |
| U+1D514 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | \mfracQ | mathematical fraktur capital q |
| U+1D516 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | \mfracS | mathematical fraktur capital s |
| U+1D517 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | \mfracT | mathematical fraktur capital t |
| U+1D518 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | \mfracU | mathematical fraktur capital u |
| U+1D519 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | \mfracV | mathematical fraktur capital v |
| U+1D51A | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | \mfracW | mathematical fraktur capital w |
| U+1D51B | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | \mfracX | mathematical fraktur capital x |
| U+1D51C | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | 𝔗 | \mfracY | mathematical fraktur capital y |

15.1.10 Fraktur, Latin, lowercase

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|---------|------------------------------|
| U+1D51E | 𝔞 | 𝔞 | 𝔞 | 𝔞 | 𝔞 | 𝔞 | 𝔞 | \mfraka | mathematical fraktur small a |
| U+1D51F | 𝔞 | 𝔞 | 𝔞 | 𝔞 | 𝔞 | 𝔞 | 𝔞 | \mfrakb | mathematical fraktur small b |
| U+1D520 | 𝔞 | 𝔞 | 𝔞 | 𝔞 | 𝔞 | 𝔞 | 𝔞 | \mfrakc | mathematical fraktur small c |
| U+1D521 | 𝔞 | 𝔞 | 𝔞 | 𝔞 | 𝔞 | 𝔞 | 𝔞 | \mfrakd | mathematical fraktur small d |
| U+1D522 | 𝔞 | 𝔞 | 𝔞 | 𝔞 | 𝔞 | 𝔞 | 𝔞 | \mfrage | mathematical fraktur small e |
| U+1D523 | 𝔞 | 𝔞 | 𝔞 | 𝔞 | 𝔞 | 𝔞 | 𝔞 | \mfrakf | mathematical fraktur small f |

| usv | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|---------|------------------------------|
| U+1D524 | g | g | g | g | g | g | g | \mfrakg | mathematical fraktur small g |
| U+1D525 | h | h | h | h | h | h | h | \mfrakh | mathematical fraktur small h |
| U+1D526 | i | i | i | i | i | i | i | \mfraki | mathematical fraktur small i |
| U+1D527 | j | j | j | j | j | j | j | \mfrakj | mathematical fraktur small j |
| U+1D528 | k | k | k | k | k | k | k | \mfrakk | mathematical fraktur small k |
| U+1D529 | l | l | l | l | l | l | l | \mfrakl | mathematical fraktur small l |
| U+1D52A | m | m | m | m | m | m | m | \mfrakm | mathematical fraktur small m |
| U+1D52B | n | n | n | n | n | n | n | \mfrakn | mathematical fraktur small n |
| U+1D52C | o | o | o | o | o | o | o | \mfrako | mathematical fraktur small o |
| U+1D52D | p | p | p | p | p | p | p | \mfrakp | mathematical fraktur small p |
| U+1D52E | q | q | q | q | q | q | q | \mfrakq | mathematical fraktur small q |
| U+1D52F | r | r | r | r | r | r | r | \mfrakr | mathematical fraktur small r |
| U+1D530 | s | s | s | s | s | s | s | \mfraks | mathematical fraktur small s |
| U+1D531 | t | t | t | t | t | t | t | \mfrakt | mathematical fraktur small t |
| U+1D532 | u | u | u | u | u | u | u | \mfraku | mathematical fraktur small u |
| U+1D533 | v | v | v | v | v | v | v | \mfrakv | mathematical fraktur small v |
| U+1D534 | w | w | w | w | w | w | w | \mfrakw | mathematical fraktur small w |
| U+1D535 | x | x | x | x | x | x | x | \mfrakx | mathematical fraktur small x |
| U+1D536 | y | y | y | y | y | y | y | \mfraky | mathematical fraktur small y |
| U+1D537 | z | z | z | z | z | z | z | \mfrakz | mathematical fraktur small z |

15.1.11 Blackboard, Latin, uppercase

| usv | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|-------|--------------------------------------|
| U+1D538 | A | A | A | A | A | A | A | \BbbA | mathematical double-struck capital a |

| usv | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|-------|--------------------------------------|
| U+1D539 | Ḃ | Ḃ | Ḃ | Ḃ | Ḃ | Ḃ | Ḃ | \BbbB | mathematical double-struck capital b |
| U+1D53B | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | \BbbD | mathematical double-struck capital d |
| U+1D53C | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | \BbbE | mathematical double-struck capital e |
| U+1D53D | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | \BbbF | mathematical double-struck capital f |
| U+1D53E | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | \BbbG | mathematical double-struck capital g |
| U+1D540 | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | \BbbI | mathematical double-struck capital i |
| U+1D541 | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | \BbbJ | mathematical double-struck capital j |
| U+1D542 | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | \BbbK | mathematical double-struck capital k |
| U+1D543 | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | \BbbL | mathematical double-struck capital l |
| U+1D544 | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | \BbbM | mathematical double-struck capital m |
| U+1D546 | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | \BbbO | mathematical double-struck capital o |
| U+1D54A | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | \BbbS | mathematical double-struck capital s |
| U+1D54B | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | \BbbT | mathematical double-struck capital t |
| U+1D54C | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | \BbbU | mathematical double-struck capital u |
| U+1D54D | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | \BbbV | mathematical double-struck capital v |
| U+1D54E | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | \BbbW | mathematical double-struck capital w |
| U+1D54F | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | \BbbX | mathematical double-struck capital x |
| U+1D550 | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | Ḅ | \BbbY | mathematical double-struck capital y |

15.1.12 Blackboard, Latin, lowercase

| usv | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|-------|------------------------------------|
| U+1D552 | ḁ | ḁ | ḁ | | ḁ | ḁ | ḁ | \Bbba | mathematical double-struck small a |
| U+1D553 | ḁ | ḁ | ḁ | | ḁ | ḁ | ḁ | \Bbbb | mathematical double-struck small b |
| U+1D554 | ḁ | ḁ | ḁ | | ḁ | ḁ | ḁ | \Bbbc | mathematical double-struck small c |

| usv | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|----------------------|------------------------------------|
| U+1D555 | d | d | d | | d | d | d | \Bbbd | mathematical double-struck small d |
| U+1D556 | e | e | e | | e | e | e | \Bbbe | mathematical double-struck small e |
| U+1D557 | f | f | f | | f | f | f | \Bbbf | mathematical double-struck small f |
| U+1D558 | g | g | g | | g | g | g | \Bbbg | mathematical double-struck small g |
| U+1D559 | h | h | h | | h | h | h | \Bbbh | mathematical double-struck small h |
| U+1D55A | i | i | i | | i | i | i | \Bbbi | mathematical double-struck small i |
| U+1D55B | j | j | j | | j | j | j | \Bbbj | mathematical double-struck small j |
| U+1D55C | k | k | k | k | k | k | k | \Bbbk ^(a) | mathematical double-struck small k |
| U+1D55D | l | l | l | | l | l | l | \Bbb l | mathematical double-struck small l |
| U+1D55E | m | m | m | | m | m | m | \Bbbm | mathematical double-struck small m |
| U+1D55F | n | n | n | | n | n | n | \Bbbn | mathematical double-struck small n |
| U+1D560 | o | o | o | | o | o | o | \Bbbo | mathematical double-struck small o |
| U+1D561 | p | p | p | | p | p | p | \Bbbp | mathematical double-struck small p |
| U+1D562 | q | q | q | | q | q | q | \Bbbq | mathematical double-struck small q |
| U+1D563 | r | r | r | | r | r | r | \Bbb r | mathematical double-struck small r |
| U+1D564 | s | s | s | | s | s | s | \Bbbs | mathematical double-struck small s |
| U+1D565 | t | t | t | | t | t | t | \Bbbt | mathematical double-struck small t |
| U+1D566 | u | u | u | | u | u | u | \Bbbu | mathematical double-struck small u |
| U+1D567 | v | v | v | | v | v | v | \Bbbv | mathematical double-struck small v |
| U+1D568 | w | w | w | | w | w | w | \Bbbw | mathematical double-struck small w |
| U+1D569 | x | x | x | | x | x | x | \Bbbx | mathematical double-struck small x |
| U+1D56A | y | y | y | | y | y | y | \Bbby | mathematical double-struck small y |
| U+1D56B | z | z | z | | z | z | z | \Bbbz | mathematical double-struck small z |

15.1.13 Sans serif, Latin, uppercase

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|----------------------|-----------------------------------|
| U+1D5A0 | A | A | A | A | A | A | A | <code>\msansA</code> | mathematical sans-serif capital a |
| U+1D5A1 | B | B | B | B | B | B | B | <code>\msansB</code> | mathematical sans-serif capital b |
| U+1D5A2 | C | C | C | C | C | C | C | <code>\msansC</code> | mathematical sans-serif capital c |
| U+1D5A3 | D | D | D | D | D | D | D | <code>\msansD</code> | mathematical sans-serif capital d |
| U+1D5A4 | E | E | E | E | E | E | E | <code>\msansE</code> | mathematical sans-serif capital e |
| U+1D5A5 | F | F | F | F | F | F | F | <code>\msansF</code> | mathematical sans-serif capital f |
| U+1D5A6 | G | G | G | G | G | G | G | <code>\msansG</code> | mathematical sans-serif capital g |
| U+1D5A7 | H | H | H | H | H | H | H | <code>\msansH</code> | mathematical sans-serif capital h |
| U+1D5A8 | I | I | I | I | I | I | I | <code>\msansI</code> | mathematical sans-serif capital i |
| U+1D5A9 | J | J | J | J | J | J | J | <code>\msansJ</code> | mathematical sans-serif capital j |
| U+1D5AA | K | K | K | K | K | K | K | <code>\msansK</code> | mathematical sans-serif capital k |
| U+1D5AB | L | L | L | L | L | L | L | <code>\msansL</code> | mathematical sans-serif capital l |
| U+1D5AC | M | M | M | M | M | M | M | <code>\msansM</code> | mathematical sans-serif capital m |
| U+1D5AD | N | N | N | N | N | N | N | <code>\msansN</code> | mathematical sans-serif capital n |
| U+1D5AE | O | O | O | O | O | O | O | <code>\msansO</code> | mathematical sans-serif capital o |
| U+1D5AF | P | P | P | P | P | P | P | <code>\msansP</code> | mathematical sans-serif capital p |
| U+1D5B0 | Q | Q | Q | Q | Q | Q | Q | <code>\msansQ</code> | mathematical sans-serif capital q |
| U+1D5B1 | R | R | R | R | R | R | R | <code>\msansR</code> | mathematical sans-serif capital r |
| U+1D5B2 | S | S | S | S | S | S | S | <code>\msansS</code> | mathematical sans-serif capital s |
| U+1D5B3 | T | T | T | T | T | T | T | <code>\msansT</code> | mathematical sans-serif capital t |
| U+1D5B4 | U | U | U | U | U | U | U | <code>\msansU</code> | mathematical sans-serif capital u |
| U+1D5B5 | V | V | V | V | V | V | V | <code>\msansV</code> | mathematical sans-serif capital v |
| U+1D5B6 | W | W | W | W | W | W | W | <code>\msansW</code> | mathematical sans-serif capital w |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|---------|-----------------------------------|
| U+1D5B7 | X | X | X | X | X | X | X | \msansX | mathematical sans-serif capital x |
| U+1D5B8 | Y | Y | Y | Y | Y | Y | Y | \msansY | mathematical sans-serif capital y |
| U+1D5B9 | Z | Z | Z | Z | Z | Z | Z | \msansZ | mathematical sans-serif capital z |

15.1.14 Sans serif, Latin, lowercase

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|---------|---------------------------------|
| U+1D5BA | a | a | a | a | a | a | a | \msansa | mathematical sans-serif small a |
| U+1D5BB | b | b | b | b | b | b | b | \msansb | mathematical sans-serif small b |
| U+1D5BC | c | c | c | c | c | c | c | \msansc | mathematical sans-serif small c |
| U+1D5BD | d | d | d | d | d | d | d | \msansd | mathematical sans-serif small d |
| U+1D5BE | e | e | e | e | e | e | e | \msanse | mathematical sans-serif small e |
| U+1D5BF | f | f | f | f | f | f | f | \msansf | mathematical sans-serif small f |
| U+1D5C0 | g | g | g | g | g | g | g | \msansg | mathematical sans-serif small g |
| U+1D5C1 | h | h | h | h | h | h | h | \msansh | mathematical sans-serif small h |
| U+1D5C2 | i | i | i | i | i | i | i | \msansi | mathematical sans-serif small i |
| U+1D5C3 | j | j | j | j | j | j | j | \msansj | mathematical sans-serif small j |
| U+1D5C4 | k | k | k | k | k | k | k | \msansk | mathematical sans-serif small k |
| U+1D5C5 | l | l | l | l | l | l | l | \msansl | mathematical sans-serif small l |
| U+1D5C6 | m | m | m | m | m | m | m | \msansm | mathematical sans-serif small m |
| U+1D5C7 | n | n | n | n | n | n | n | \msansn | mathematical sans-serif small n |
| U+1D5C8 | o | o | o | o | o | o | o | \msanso | mathematical sans-serif small o |
| U+1D5C9 | p | p | p | p | p | p | p | \msansp | mathematical sans-serif small p |
| U+1D5CA | q | q | q | q | q | q | q | \msansq | mathematical sans-serif small q |
| U+1D5CB | r | r | r | r | r | r | r | \msansr | mathematical sans-serif small r |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|---------|---------------------------------|
| U+1D5CC | s | s | s | s | s | s | s | \msanss | mathematical sans-serif small s |
| U+1D5CD | t | t | t | t | t | t | t | \msanst | mathematical sans-serif small t |
| U+1D5CE | u | u | u | u | u | u | u | \msansu | mathematical sans-serif small u |
| U+1D5CF | v | v | v | v | v | v | v | \msansv | mathematical sans-serif small v |
| U+1D5D0 | w | w | w | w | w | w | w | \msansw | mathematical sans-serif small w |
| U+1D5D1 | x | x | x | x | x | x | x | \msansx | mathematical sans-serif small x |
| U+1D5D2 | y | y | y | y | y | y | y | \msansy | mathematical sans-serif small y |
| U+1D5D3 | z | z | z | z | z | z | z | \msansz | mathematical sans-serif small z |

15.1.15 Italic sans serif, Latin, uppercase

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|-----------|--|
| U+1D608 | A | A | A | A | A | A | A | \mitsansA | mathematical sans-serif italic capital a |
| U+1D609 | B | B | B | B | B | B | B | \mitsansB | mathematical sans-serif italic capital b |
| U+1D60A | C | C | C | C | C | C | C | \mitsansC | mathematical sans-serif italic capital c |
| U+1D60B | D | D | D | D | D | D | D | \mitsansD | mathematical sans-serif italic capital d |
| U+1D60C | E | E | E | E | E | E | E | \mitsansE | mathematical sans-serif italic capital e |
| U+1D60D | F | F | F | F | F | F | F | \mitsansF | mathematical sans-serif italic capital f |
| U+1D60E | G | G | G | G | G | G | G | \mitsansG | mathematical sans-serif italic capital g |
| U+1D60F | H | H | H | H | H | H | H | \mitsansH | mathematical sans-serif italic capital h |
| U+1D610 | I | I | I | I | I | I | I | \mitsansI | mathematical sans-serif italic capital i |
| U+1D611 | J | J | J | J | J | J | J | \mitsansJ | mathematical sans-serif italic capital j |
| U+1D612 | K | K | K | K | K | K | K | \mitsansK | mathematical sans-serif italic capital k |
| U+1D613 | L | L | L | L | L | L | L | \mitsansL | mathematical sans-serif italic capital l |
| U+1D614 | M | M | M | M | M | M | M | \mitsansM | mathematical sans-serif italic capital m |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------|----------|----------|----------|----------|----------|----------|------------------------|--|
| U+1D615 | <i>N</i> | <i>N</i> | <i>N</i> | <i>N</i> | <i>N</i> | <i>N</i> | <i>N</i> | <code>\mitsansN</code> | mathematical sans-serif italic capital n |
| U+1D616 | <i>O</i> | <i>O</i> | <i>O</i> | <i>O</i> | <i>O</i> | <i>O</i> | <i>O</i> | <code>\mitsansO</code> | mathematical sans-serif italic capital o |
| U+1D617 | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <code>\mitsansP</code> | mathematical sans-serif italic capital p |
| U+1D618 | <i>Q</i> | <i>Q</i> | <i>Q</i> | <i>Q</i> | <i>Q</i> | <i>Q</i> | <i>Q</i> | <code>\mitsansQ</code> | mathematical sans-serif italic capital q |
| U+1D619 | <i>R</i> | <i>R</i> | <i>R</i> | <i>R</i> | <i>R</i> | <i>R</i> | <i>R</i> | <code>\mitsansR</code> | mathematical sans-serif italic capital r |
| U+1D61A | <i>S</i> | <i>S</i> | <i>S</i> | <i>S</i> | <i>S</i> | <i>S</i> | <i>S</i> | <code>\mitsansS</code> | mathematical sans-serif italic capital s |
| U+1D61B | <i>T</i> | <i>T</i> | <i>T</i> | <i>T</i> | <i>T</i> | <i>T</i> | <i>T</i> | <code>\mitsansT</code> | mathematical sans-serif italic capital t |
| U+1D61C | <i>U</i> | <i>U</i> | <i>U</i> | <i>U</i> | <i>U</i> | <i>U</i> | <i>U</i> | <code>\mitsansU</code> | mathematical sans-serif italic capital u |
| U+1D61D | <i>V</i> | <i>V</i> | <i>V</i> | <i>V</i> | <i>V</i> | <i>V</i> | <i>V</i> | <code>\mitsansV</code> | mathematical sans-serif italic capital v |
| U+1D61E | <i>W</i> | <i>W</i> | <i>W</i> | <i>W</i> | <i>W</i> | <i>W</i> | <i>W</i> | <code>\mitsansW</code> | mathematical sans-serif italic capital w |
| U+1D61F | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <code>\mitsansX</code> | mathematical sans-serif italic capital x |
| U+1D620 | <i>Y</i> | <i>Y</i> | <i>Y</i> | <i>Y</i> | <i>Y</i> | <i>Y</i> | <i>Y</i> | <code>\mitsansY</code> | mathematical sans-serif italic capital y |
| U+1D621 | <i>Z</i> | <i>Z</i> | <i>Z</i> | <i>Z</i> | <i>Z</i> | <i>Z</i> | <i>Z</i> | <code>\mitsansZ</code> | mathematical sans-serif italic capital z |

15.1.16 Italic sans serif, Latin, lowercase

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------|----------|----------|----------|----------|----------|----------|------------------------|--|
| U+1D622 | <i>a</i> | <i>a</i> | <i>a</i> | <i>a</i> | <i>a</i> | <i>a</i> | <i>a</i> | <code>\mitsansa</code> | mathematical sans-serif italic small a |
| U+1D623 | <i>b</i> | <i>b</i> | <i>b</i> | <i>b</i> | <i>b</i> | <i>b</i> | <i>b</i> | <code>\mitsansb</code> | mathematical sans-serif italic small b |
| U+1D624 | <i>c</i> | <i>c</i> | <i>c</i> | <i>c</i> | <i>c</i> | <i>c</i> | <i>c</i> | <code>\mitsansc</code> | mathematical sans-serif italic small c |
| U+1D625 | <i>d</i> | <i>d</i> | <i>d</i> | <i>d</i> | <i>d</i> | <i>d</i> | <i>d</i> | <code>\mitsansd</code> | mathematical sans-serif italic small d |
| U+1D626 | <i>e</i> | <i>e</i> | <i>e</i> | <i>e</i> | <i>e</i> | <i>e</i> | <i>e</i> | <code>\mitsanse</code> | mathematical sans-serif italic small e |
| U+1D627 | <i>f</i> | <i>f</i> | <i>f</i> | <i>f</i> | <i>f</i> | <i>f</i> | <i>f</i> | <code>\mitsansf</code> | mathematical sans-serif italic small f |
| U+1D628 | <i>g</i> | <i>g</i> | <i>g</i> | <i>g</i> | <i>g</i> | <i>g</i> | <i>g</i> | <code>\mitsansg</code> | mathematical sans-serif italic small g |
| U+1D629 | <i>h</i> | <i>h</i> | <i>h</i> | <i>h</i> | <i>h</i> | <i>h</i> | <i>h</i> | <code>\mitsansh</code> | mathematical sans-serif italic small h |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------|----------|----------|----------|----------|----------|----------|------------------------|--|
| U+1D62A | <i>i</i> | <i>i</i> | <i>i</i> | <i>i</i> | <i>i</i> | <i>i</i> | <i>i</i> | <code>\mitsansi</code> | mathematical sans-serif italic small i |
| U+1D62B | <i>j</i> | <i>j</i> | <i>j</i> | <i>j</i> | <i>j</i> | <i>j</i> | <i>j</i> | <code>\mitsansj</code> | mathematical sans-serif italic small j |
| U+1D62C | <i>k</i> | <i>k</i> | <i>k</i> | <i>k</i> | <i>k</i> | <i>k</i> | <i>k</i> | <code>\mitsansk</code> | mathematical sans-serif italic small k |
| U+1D62D | <i>l</i> | <i>l</i> | <i>l</i> | <i>l</i> | <i>l</i> | <i>l</i> | <i>l</i> | <code>\mitsansl</code> | mathematical sans-serif italic small l |
| U+1D62E | <i>m</i> | <i>m</i> | <i>m</i> | <i>m</i> | <i>m</i> | <i>m</i> | <i>m</i> | <code>\mitsansm</code> | mathematical sans-serif italic small m |
| U+1D62F | <i>n</i> | <i>n</i> | <i>n</i> | <i>n</i> | <i>n</i> | <i>n</i> | <i>n</i> | <code>\mitsansn</code> | mathematical sans-serif italic small n |
| U+1D630 | <i>o</i> | <i>o</i> | <i>o</i> | <i>o</i> | <i>o</i> | <i>o</i> | <i>o</i> | <code>\mitsanso</code> | mathematical sans-serif italic small o |
| U+1D631 | <i>p</i> | <i>p</i> | <i>p</i> | <i>p</i> | <i>p</i> | <i>p</i> | <i>p</i> | <code>\mitsansp</code> | mathematical sans-serif italic small p |
| U+1D632 | <i>q</i> | <i>q</i> | <i>q</i> | <i>q</i> | <i>q</i> | <i>q</i> | <i>q</i> | <code>\mitsansq</code> | mathematical sans-serif italic small q |
| U+1D633 | <i>r</i> | <i>r</i> | <i>r</i> | <i>r</i> | <i>r</i> | <i>r</i> | <i>r</i> | <code>\mitsansr</code> | mathematical sans-serif italic small r |
| U+1D634 | <i>s</i> | <i>s</i> | <i>s</i> | <i>s</i> | <i>s</i> | <i>s</i> | <i>s</i> | <code>\mitsanss</code> | mathematical sans-serif italic small s |
| U+1D635 | <i>t</i> | <i>t</i> | <i>t</i> | <i>t</i> | <i>t</i> | <i>t</i> | <i>t</i> | <code>\mitsanst</code> | mathematical sans-serif italic small t |
| U+1D636 | <i>u</i> | <i>u</i> | <i>u</i> | <i>u</i> | <i>u</i> | <i>u</i> | <i>u</i> | <code>\mitsansu</code> | mathematical sans-serif italic small u |
| U+1D637 | <i>v</i> | <i>v</i> | <i>v</i> | <i>v</i> | <i>v</i> | <i>v</i> | <i>v</i> | <code>\mitsansv</code> | mathematical sans-serif italic small v |
| U+1D638 | <i>w</i> | <i>w</i> | <i>w</i> | <i>w</i> | <i>w</i> | <i>w</i> | <i>w</i> | <code>\mitsansw</code> | mathematical sans-serif italic small w |
| U+1D639 | <i>x</i> | <i>x</i> | <i>x</i> | <i>x</i> | <i>x</i> | <i>x</i> | <i>x</i> | <code>\mitsansx</code> | mathematical sans-serif italic small x |
| U+1D63A | <i>y</i> | <i>y</i> | <i>y</i> | <i>y</i> | <i>y</i> | <i>y</i> | <i>y</i> | <code>\mitsansy</code> | mathematical sans-serif italic small y |
| U+1D63B | <i>z</i> | <i>z</i> | <i>z</i> | <i>z</i> | <i>z</i> | <i>z</i> | <i>z</i> | <code>\mitsansz</code> | mathematical sans-serif italic small z |

15.1.17 Typewriter, Latin, uppercase

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------|----------|----------|----------|----------|----------|----------|--------------------|----------------------------------|
| U+1D670 | A | A | A | A | A | A | A | <code>\mttA</code> | mathematical monospace capital a |
| U+1D671 | B | B | B | B | B | B | B | <code>\mttB</code> | mathematical monospace capital b |
| U+1D672 | C | C | C | C | C | C | C | <code>\mttC</code> | mathematical monospace capital c |

| usv | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|-------|----------------------------------|
| U+1D673 | D | D | D | D | D | D | D | \mttD | mathematical monospace capital d |
| U+1D674 | E | E | E | E | E | E | E | \mttE | mathematical monospace capital e |
| U+1D675 | F | F | F | F | F | F | F | \mttF | mathematical monospace capital f |
| U+1D676 | G | G | G | G | G | G | G | \mttG | mathematical monospace capital g |
| U+1D677 | H | H | H | H | H | H | H | \mttH | mathematical monospace capital h |
| U+1D678 | I | I | I | I | I | I | I | \mttI | mathematical monospace capital i |
| U+1D679 | J | J | J | J | J | J | J | \mttJ | mathematical monospace capital j |
| U+1D67A | K | K | K | K | K | K | K | \mttK | mathematical monospace capital k |
| U+1D67B | L | L | L | L | L | L | L | \mttL | mathematical monospace capital l |
| U+1D67C | M | M | M | M | M | M | M | \mttM | mathematical monospace capital m |
| U+1D67D | N | N | N | N | N | N | N | \mttN | mathematical monospace capital n |
| U+1D67E | O | O | O | O | O | O | O | \mttO | mathematical monospace capital o |
| U+1D67F | P | P | P | P | P | P | P | \mttP | mathematical monospace capital p |
| U+1D680 | Q | Q | Q | Q | Q | Q | Q | \mttQ | mathematical monospace capital q |
| U+1D681 | R | R | R | R | R | R | R | \mttR | mathematical monospace capital r |
| U+1D682 | S | S | S | S | S | S | S | \mttS | mathematical monospace capital s |
| U+1D683 | T | T | T | T | T | T | T | \mttT | mathematical monospace capital t |
| U+1D684 | U | U | U | U | U | U | U | \mttU | mathematical monospace capital u |
| U+1D685 | V | V | V | V | V | V | V | \mttV | mathematical monospace capital v |
| U+1D686 | W | W | W | W | W | W | W | \mttW | mathematical monospace capital w |
| U+1D687 | X | X | X | X | X | X | X | \mttX | mathematical monospace capital x |
| U+1D688 | Y | Y | Y | Y | Y | Y | Y | \mttY | mathematical monospace capital y |
| U+1D689 | Z | Z | Z | Z | Z | Z | Z | \mttZ | mathematical monospace capital z |

15.1.18 Typewriter, Latin, lowercase

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|-------|--------------------------------|
| U+1D68A | a | a | a | a | a | a | a | \mtta | mathematical monospace small a |
| U+1D68B | b | b | b | b | b | b | b | \mttb | mathematical monospace small b |
| U+1D68C | c | c | c | c | c | c | c | \mttc | mathematical monospace small c |
| U+1D68D | d | d | d | d | d | d | d | \mttd | mathematical monospace small d |
| U+1D68E | e | e | e | e | e | e | e | \mtte | mathematical monospace small e |
| U+1D68F | f | f | f | f | f | f | f | \mttf | mathematical monospace small f |
| U+1D690 | g | g | g | g | g | g | g | \mttg | mathematical monospace small g |
| U+1D691 | h | h | h | h | h | h | h | \mtth | mathematical monospace small h |
| U+1D692 | i | i | i | i | i | i | i | \mtti | mathematical monospace small i |
| U+1D693 | j | j | j | j | j | j | j | \mttj | mathematical monospace small j |
| U+1D694 | k | k | k | k | k | k | k | \mttk | mathematical monospace small k |
| U+1D695 | l | l | l | l | l | l | l | \mttl | mathematical monospace small l |
| U+1D696 | m | m | m | m | m | m | m | \mttm | mathematical monospace small m |
| U+1D697 | n | n | n | n | n | n | n | \mttn | mathematical monospace small n |
| U+1D698 | o | o | o | o | o | o | o | \mtto | mathematical monospace small o |
| U+1D699 | p | p | p | p | p | p | p | \mttp | mathematical monospace small p |
| U+1D69A | q | q | q | q | q | q | q | \mttq | mathematical monospace small q |
| U+1D69B | r | r | r | r | r | r | r | \mttr | mathematical monospace small r |
| U+1D69C | s | s | s | s | s | s | s | \mtts | mathematical monospace small s |
| U+1D69D | t | t | t | t | t | t | t | \mttt | mathematical monospace small t |
| U+1D69E | u | u | u | u | u | u | u | \mttu | mathematical monospace small u |
| U+1D69F | v | v | v | v | v | v | v | \mttv | mathematical monospace small v |
| U+1D6A0 | w | w | w | w | w | w | w | \mttw | mathematical monospace small w |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|-------|--------------------------------|
| U+1D6A1 | x | x | x | x | x | x | x | \mttx | mathematical monospace small x |
| U+1D6A2 | y | y | y | y | y | y | y | \mtty | mathematical monospace small y |
| U+1D6A3 | z | z | z | z | z | z | z | \mttz | mathematical monospace small z |

15.2 Bold

15.2.1 Bold, Latin, uppercase

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|-------|-----------------------------|
| U+1D400 | A | A | A | A | A | A | A | \mbfA | mathematical bold capital a |
| U+1D401 | B | B | B | B | B | B | B | \mbfB | mathematical bold capital b |
| U+1D402 | C | C | C | C | C | C | C | \mbfC | mathematical bold capital c |
| U+1D403 | D | D | D | D | D | D | D | \mbfD | mathematical bold capital d |
| U+1D404 | E | E | E | E | E | E | E | \mbfE | mathematical bold capital e |
| U+1D405 | F | F | F | F | F | F | F | \mbfF | mathematical bold capital f |
| U+1D406 | G | G | G | G | G | G | G | \mbfG | mathematical bold capital g |
| U+1D407 | H | H | H | H | H | H | H | \mbfH | mathematical bold capital h |
| U+1D408 | I | I | I | I | I | I | I | \mbfI | mathematical bold capital i |
| U+1D409 | J | J | J | J | J | J | J | \mbfJ | mathematical bold capital j |
| U+1D40A | K | K | K | K | K | K | K | \mbfK | mathematical bold capital k |
| U+1D40B | L | L | L | L | L | L | L | \mbfL | mathematical bold capital l |
| U+1D40C | M | M | M | M | M | M | M | \mbfM | mathematical bold capital m |
| U+1D40D | N | N | N | N | N | N | N | \mbfN | mathematical bold capital n |
| U+1D40E | O | O | O | O | O | O | O | \mbfO | mathematical bold capital o |
| U+1D40F | P | P | P | P | P | P | P | \mbfP | mathematical bold capital p |
| U+1D410 | Q | Q | Q | Q | Q | Q | Q | \mbfQ | mathematical bold capital q |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------|----------|----------|----------|----------|----------|----------|--------------------|-----------------------------|
| U+1D411 | R | R | R | R | R | R | R | <code>\mbfR</code> | mathematical bold capital r |
| U+1D412 | S | S | S | S | S | S | S | <code>\mbfS</code> | mathematical bold capital s |
| U+1D413 | T | T | T | T | T | T | T | <code>\mbfT</code> | mathematical bold capital t |
| U+1D414 | U | U | U | U | U | U | U | <code>\mbfU</code> | mathematical bold capital u |
| U+1D415 | V | V | V | V | V | V | V | <code>\mbfV</code> | mathematical bold capital v |
| U+1D416 | W | W | W | W | W | W | W | <code>\mbfW</code> | mathematical bold capital w |
| U+1D417 | X | X | X | X | X | X | X | <code>\mbfX</code> | mathematical bold capital x |
| U+1D418 | Y | Y | Y | Y | Y | Y | Y | <code>\mbfY</code> | mathematical bold capital y |
| U+1D419 | Z | Z | Z | Z | Z | Z | Z | <code>\mbfZ</code> | mathematical bold capital z |

15.2.2 Bold, Latin, lowercase

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------|----------|----------|----------|----------|----------|----------|--------------------|---------------------------|
| U+1D41A | a | a | a | a | a | a | a | <code>\mbfa</code> | mathematical bold small a |
| U+1D41B | b | b | b | b | b | b | b | <code>\mbfb</code> | mathematical bold small b |
| U+1D41C | c | c | c | c | c | c | c | <code>\mbfc</code> | mathematical bold small c |
| U+1D41D | d | d | d | d | d | d | d | <code>\mbfd</code> | mathematical bold small d |
| U+1D41E | e | e | e | e | e | e | e | <code>\mbfe</code> | mathematical bold small e |
| U+1D41F | f | f | f | f | f | f | f | <code>\mbff</code> | mathematical bold small f |
| U+1D420 | g | g | g | g | g | g | g | <code>\mbfg</code> | mathematical bold small g |
| U+1D421 | h | h | h | h | h | h | h | <code>\mbfh</code> | mathematical bold small h |
| U+1D422 | i | i | i | i | i | i | i | <code>\mbfi</code> | mathematical bold small i |
| U+1D423 | j | j | j | j | j | j | j | <code>\mbfj</code> | mathematical bold small j |
| U+1D424 | k | k | k | k | k | k | k | <code>\mbfk</code> | mathematical bold small k |
| U+1D425 | l | l | l | l | l | l | l | <code>\mbfl</code> | mathematical bold small l |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------|----------|----------|----------|----------|----------|----------|--------------------|---------------------------|
| U+1D426 | m | m | m | m | m | m | m | <code>\mbfm</code> | mathematical bold small m |
| U+1D427 | n | n | n | n | n | n | n | <code>\mbfn</code> | mathematical bold small n |
| U+1D428 | o | o | o | o | o | o | o | <code>\mbfo</code> | mathematical bold small o |
| U+1D429 | p | p | p | p | p | p | p | <code>\mbfp</code> | mathematical bold small p |
| U+1D42A | q | q | q | q | q | q | q | <code>\mbfq</code> | mathematical bold small q |
| U+1D42B | r | r | r | r | r | r | r | <code>\mbfr</code> | mathematical bold small r |
| U+1D42C | s | s | s | s | s | s | s | <code>\mbfs</code> | mathematical bold small s |
| U+1D42D | t | t | t | t | t | t | t | <code>\mbft</code> | mathematical bold small t |
| U+1D42E | u | u | u | u | u | u | u | <code>\mbfu</code> | mathematical bold small u |
| U+1D42F | v | v | v | v | v | v | v | <code>\mbfv</code> | mathematical bold small v |
| U+1D430 | w | w | w | w | w | w | w | <code>\mbfw</code> | mathematical bold small w |
| U+1D431 | x | x | x | x | x | x | x | <code>\mbfx</code> | mathematical bold small x |
| U+1D432 | y | y | y | y | y | y | y | <code>\mbfy</code> | mathematical bold small y |
| U+1D433 | z | z | z | z | z | z | z | <code>\mbfz</code> | mathematical bold small z |

15.2.3 Bold Greek, uppercase

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------|----------|----------|----------|----------|----------|----------|--------------------------|-----------------------------------|
| U+1D6A8 | Α | Α | Α | Α | Α | Α | Α | <code>\mbfAlpha</code> | mathematical bold capital alpha |
| U+1D6A9 | Β | Β | Β | Β | Β | Β | Β | <code>\mbfBeta</code> | mathematical bold capital beta |
| U+1D6AA | Γ | Γ | Γ | Γ | Γ | Γ | Γ | <code>\mbfGamma</code> | mathematical bold capital gamma |
| U+1D6AB | Δ | Δ | Δ | Δ | Δ | Δ | Δ | <code>\mbfDelta</code> | mathematical bold capital delta |
| U+1D6AC | Ε | Ε | Ε | Ε | Ε | Ε | Ε | <code>\mbfEpsilon</code> | mathematical bold capital epsilon |
| U+1D6AD | Ζ | Ζ | Ζ | Ζ | Ζ | Ζ | Ζ | <code>\mbfZeta</code> | mathematical bold capital zeta |
| U+1D6AE | Η | Η | Η | Η | Η | Η | Η | <code>\mbfEta</code> | mathematical bold capital eta |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|--------------|--|
| U+1D6AF | Θ | Θ | Θ | Θ | Θ | Θ | Θ | \mbfTheta | mathematical bold capital theta |
| U+1D6B0 | I | I | I | I | I | I | I | \mbfIota | mathematical bold capital iota |
| U+1D6B1 | K | K | K | K | K | K | K | \mbfKappa | mathematical bold capital kappa |
| U+1D6B2 | Λ | Λ | Λ | Λ | Λ | Λ | Λ | \mbfLambda | mathematical bold capital lambda |
| U+1D6B3 | M | M | M | M | M | M | M | \mbfMu | mathematical bold capital mu |
| U+1D6B4 | N | N | N | N | N | N | N | \mbfNu | mathematical bold capital nu |
| U+1D6B5 | Ξ | Ξ | Ξ | Ξ | Ξ | Ξ | Ξ | \mbfXi | mathematical bold capital xi |
| U+1D6B6 | O | O | O | O | O | O | O | \mbfOmicron | mathematical bold capital omicron |
| U+1D6B7 | Π | Π | Π | Π | Π | Π | Π | \mbfPi | mathematical bold capital pi |
| U+1D6B8 | P | P | P | P | P | P | P | \mbfRho | mathematical bold capital rho |
| U+1D6B9 | Θ | Θ | Θ | Θ | Θ | Θ | Θ | \mbfvarTheta | mathematical bold capital theta symbol |
| U+1D6BA | Σ | Σ | Σ | Σ | Σ | Σ | Σ | \mbfSigma | mathematical bold capital sigma |
| U+1D6BB | T | T | T | T | T | T | T | \mbfTau | mathematical bold capital tau |
| U+1D6BC | Υ | Υ | Υ | Υ | Υ | Υ | Υ | \mbfUpsilon | mathematical bold capital upsilon |
| U+1D6BD | Φ | Φ | Φ | Φ | Φ | Φ | Φ | \mbfPhi | mathematical bold capital phi |
| U+1D6BE | X | X | X | X | X | X | X | \mbfChi | mathematical bold capital chi |
| U+1D6BF | Ψ | Ψ | Ψ | Ψ | Ψ | Ψ | Ψ | \mbfPsi | mathematical bold capital psi |
| U+1D6C0 | Ω | Ω | Ω | Ω | Ω | Ω | Ω | \mbfOmega | mathematical bold capital omega |

15.2.4 Bold Greek, lowercase

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|--------------|-------------------------------|
| U+1D6C2 | α | α | α | α | α | α | α | \mbfalphabet | mathematical bold small alpha |
| U+1D6C3 | β | β | β | β | β | β | β | \mbfbeta | mathematical bold small beta |
| U+1D6C4 | γ | γ | γ | γ | γ | γ | γ | \mbfgamma | mathematical bold small gamma |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|----------------|--|
| U+1D6C5 | δ | δ | δ | δ | δ | δ | δ | \mbfdelta | mathematical bold small delta |
| U+1D6C6 | ε | ε | ε | ε | ε | ε | ε | \mbfvarepsilon | mathematical bold small varepsilon |
| U+1D6C7 | ζ | ζ | ζ | ζ | ζ | ζ | ζ | \mbfzeta | mathematical bold small zeta |
| U+1D6C8 | η | η | η | η | η | η | η | \mbfeta | mathematical bold small eta |
| U+1D6C9 | θ | θ | θ | θ | θ | θ | θ | \mbftheta | mathematical bold small theta |
| U+1D6CA | ι | ι | ι | ι | ι | ι | ι | \mbfiota | mathematical bold small iota |
| U+1D6CB | κ | κ | κ | κ | κ | κ | κ | \mbfkappa | mathematical bold small kappa |
| U+1D6CC | λ | λ | λ | λ | λ | λ | λ | \mbflambda | mathematical bold small lambda |
| U+1D6CD | μ | μ | μ | μ | μ | μ | μ | \mbfmu | mathematical bold small mu |
| U+1D6CE | ν | ν | ν | ν | ν | ν | ν | \mbfnu | mathematical bold small nu |
| U+1D6CF | ξ | ξ | ξ | ξ | ξ | ξ | ξ | \mbfxi | mathematical bold small xi |
| U+1D6D0 | ο | ο | ο | ο | ο | ο | ο | \mbfomicron | mathematical bold small omicron |
| U+1D6D1 | π | π | π | π | π | π | π | \mbfpi | mathematical bold small pi |
| U+1D6D2 | ρ | ρ | ρ | ρ | ρ | ρ | ρ | \mbfrho | mathematical bold small rho |
| U+1D6D3 | ς | ς | ς | ς | ς | ς | ς | \mbfvarsigma | mathematical bold small final sigma |
| U+1D6D4 | σ | σ | σ | σ | σ | σ | σ | \mbfsigma | mathematical bold small sigma |
| U+1D6D5 | τ | τ | τ | τ | τ | τ | τ | \mbftau | mathematical bold small tau |
| U+1D6D6 | υ | υ | υ | υ | υ | υ | υ | \mbfupsilon | mathematical bold small upsilon |
| U+1D6D7 | φ | φ | φ | φ | φ | φ | φ | \mbfvarphi | mathematical bold small phi |
| U+1D6D8 | χ | χ | χ | χ | χ | χ | χ | \mbfchi | mathematical bold small chi |
| U+1D6D9 | ψ | ψ | ψ | ψ | ψ | ψ | ψ | \mbfpsi | mathematical bold small psi |
| U+1D6DA | ω | ω | ω | ω | ω | ω | ω | \mbfomega | mathematical bold small omega |
| U+1D6DB | ∂ | ∂ | ∂ | ∂ | ∂ | ∂ | ∂ | \mbfpartial | mathematical bold partial differential |
| U+1D6DC | € | € | € | € | € | € | € | \mbfepsilon | mathematical bold varepsilon symbol |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------|----------|----------|----------|----------|----------|----------|---------------------------|--------------------------------|
| U+1D6DD | Θ | ϑ | ϑ | ϑ | ϑ | ϑ | ϑ | <code>\mbfvartheta</code> | mathematical bold theta symbol |
| U+1D6DE | κ | κ | κ | κ | κ | κ | κ | <code>\mbfvarkappa</code> | mathematical bold kappa symbol |
| U+1D6DF | ϕ | ϕ | ϕ | ϕ | ϕ | ϕ | ϕ | <code>\mbfphi</code> | mathematical bold phi symbol |
| U+1D6E0 | ρ | ρ | ρ | ρ | ρ | ρ | ρ | <code>\mbfvarrho</code> | mathematical bold rho symbol |
| U+1D6E1 | π | π | π | π | π | π | π | <code>\mbfvarpi</code> | mathematical bold pi symbol |

15.2.5 Bold italic, Latin, uppercase

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------------|------------------------------------|
| U+1D468 | <i>A</i> | <i>A</i> | <i>A</i> | <i>A</i> | <i>A</i> | <i>A</i> | <i>A</i> | <code>\mbfitA</code> | mathematical bold italic capital a |
| U+1D469 | <i>B</i> | <i>B</i> | <i>B</i> | <i>B</i> | <i>B</i> | <i>B</i> | <i>B</i> | <code>\mbfitB</code> | mathematical bold italic capital b |
| U+1D46A | <i>C</i> | <i>C</i> | <i>C</i> | <i>C</i> | <i>C</i> | <i>C</i> | <i>C</i> | <code>\mbfitC</code> | mathematical bold italic capital c |
| U+1D46B | <i>D</i> | <i>D</i> | <i>D</i> | <i>D</i> | <i>D</i> | <i>D</i> | <i>D</i> | <code>\mbfitD</code> | mathematical bold italic capital d |
| U+1D46C | <i>E</i> | <i>E</i> | <i>E</i> | <i>E</i> | <i>E</i> | <i>E</i> | <i>E</i> | <code>\mbfitE</code> | mathematical bold italic capital e |
| U+1D46D | <i>F</i> | <i>F</i> | <i>F</i> | <i>F</i> | <i>F</i> | <i>F</i> | <i>F</i> | <code>\mbfitF</code> | mathematical bold italic capital f |
| U+1D46E | <i>G</i> | <i>G</i> | <i>G</i> | <i>G</i> | <i>G</i> | <i>G</i> | <i>G</i> | <code>\mbfitG</code> | mathematical bold italic capital g |
| U+1D46F | <i>H</i> | <i>H</i> | <i>H</i> | <i>H</i> | <i>H</i> | <i>H</i> | <i>H</i> | <code>\mbfitH</code> | mathematical bold italic capital h |
| U+1D470 | <i>I</i> | <i>I</i> | <i>I</i> | <i>I</i> | <i>I</i> | <i>I</i> | <i>I</i> | <code>\mbfitI</code> | mathematical bold italic capital i |
| U+1D471 | <i>J</i> | <i>J</i> | <i>J</i> | <i>J</i> | <i>J</i> | <i>J</i> | <i>J</i> | <code>\mbfitJ</code> | mathematical bold italic capital j |
| U+1D472 | <i>K</i> | <i>K</i> | <i>K</i> | <i>K</i> | <i>K</i> | <i>K</i> | <i>K</i> | <code>\mbfitK</code> | mathematical bold italic capital k |
| U+1D473 | <i>L</i> | <i>L</i> | <i>L</i> | <i>L</i> | <i>L</i> | <i>L</i> | <i>L</i> | <code>\mbfitL</code> | mathematical bold italic capital l |
| U+1D474 | <i>M</i> | <i>M</i> | <i>M</i> | <i>M</i> | <i>M</i> | <i>M</i> | <i>M</i> | <code>\mbfitM</code> | mathematical bold italic capital m |
| U+1D475 | <i>N</i> | <i>N</i> | <i>N</i> | <i>N</i> | <i>N</i> | <i>N</i> | <i>N</i> | <code>\mbfitN</code> | mathematical bold italic capital n |
| U+1D476 | <i>O</i> | <i>O</i> | <i>O</i> | <i>O</i> | <i>O</i> | <i>O</i> | <i>O</i> | <code>\mbfitO</code> | mathematical bold italic capital o |
| U+1D477 | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <code>\mbfitP</code> | mathematical bold italic capital p |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------|----------|----------|----------|----------|----------|----------|----------------------|------------------------------------|
| U+1D478 | <i>Q</i> | <i>Q</i> | <i>Q</i> | <i>Q</i> | <i>Q</i> | <i>Q</i> | <i>Q</i> | <code>\mbfitQ</code> | mathematical bold italic capital q |
| U+1D479 | <i>R</i> | <i>R</i> | <i>R</i> | <i>R</i> | <i>R</i> | <i>R</i> | <i>R</i> | <code>\mbfitR</code> | mathematical bold italic capital r |
| U+1D47A | <i>S</i> | <i>S</i> | <i>S</i> | <i>S</i> | <i>S</i> | <i>S</i> | <i>S</i> | <code>\mbfitS</code> | mathematical bold italic capital s |
| U+1D47B | <i>T</i> | <i>T</i> | <i>T</i> | <i>T</i> | <i>T</i> | <i>T</i> | <i>T</i> | <code>\mbfitT</code> | mathematical bold italic capital t |
| U+1D47C | <i>U</i> | <i>U</i> | <i>U</i> | <i>U</i> | <i>U</i> | <i>U</i> | <i>U</i> | <code>\mbfitU</code> | mathematical bold italic capital u |
| U+1D47D | <i>V</i> | <i>V</i> | <i>V</i> | <i>V</i> | <i>V</i> | <i>V</i> | <i>V</i> | <code>\mbfitV</code> | mathematical bold italic capital v |
| U+1D47E | <i>W</i> | <i>W</i> | <i>W</i> | <i>W</i> | <i>W</i> | <i>W</i> | <i>W</i> | <code>\mbfitW</code> | mathematical bold italic capital w |
| U+1D47F | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <code>\mbfitX</code> | mathematical bold italic capital x |
| U+1D480 | <i>Y</i> | <i>Y</i> | <i>Y</i> | <i>Y</i> | <i>Y</i> | <i>Y</i> | <i>Y</i> | <code>\mbfitY</code> | mathematical bold italic capital y |
| U+1D481 | <i>Z</i> | <i>Z</i> | <i>Z</i> | <i>Z</i> | <i>Z</i> | <i>Z</i> | <i>Z</i> | <code>\mbfitZ</code> | mathematical bold italic capital z |

15.2.6 Bold italic, Latin, lowercase

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------|----------|----------|----------|----------|----------|----------|----------------------|----------------------------------|
| U+1D482 | <i>a</i> | <i>a</i> | <i>a</i> | <i>a</i> | <i>a</i> | <i>a</i> | <i>a</i> | <code>\mbfita</code> | mathematical bold italic small a |
| U+1D483 | <i>b</i> | <i>b</i> | <i>b</i> | <i>b</i> | <i>b</i> | <i>b</i> | <i>b</i> | <code>\mbfitb</code> | mathematical bold italic small b |
| U+1D484 | <i>c</i> | <i>c</i> | <i>c</i> | <i>c</i> | <i>c</i> | <i>c</i> | <i>c</i> | <code>\mbfitc</code> | mathematical bold italic small c |
| U+1D485 | <i>d</i> | <i>d</i> | <i>d</i> | <i>d</i> | <i>d</i> | <i>d</i> | <i>d</i> | <code>\mbfitd</code> | mathematical bold italic small d |
| U+1D486 | <i>e</i> | <i>e</i> | <i>e</i> | <i>e</i> | <i>e</i> | <i>e</i> | <i>e</i> | <code>\mbfite</code> | mathematical bold italic small e |
| U+1D487 | <i>f</i> | <i>f</i> | <i>f</i> | <i>f</i> | <i>f</i> | <i>f</i> | <i>f</i> | <code>\mbfitf</code> | mathematical bold italic small f |
| U+1D488 | <i>g</i> | <i>g</i> | <i>g</i> | <i>g</i> | <i>g</i> | <i>g</i> | <i>g</i> | <code>\mbfitg</code> | mathematical bold italic small g |
| U+1D489 | <i>h</i> | <i>h</i> | <i>h</i> | <i>h</i> | <i>h</i> | <i>h</i> | <i>h</i> | <code>\mbfith</code> | mathematical bold italic small h |
| U+1D48A | <i>i</i> | <i>i</i> | <i>i</i> | <i>i</i> | <i>i</i> | <i>i</i> | <i>i</i> | <code>\mbfiti</code> | mathematical bold italic small i |
| U+1D48B | <i>j</i> | <i>j</i> | <i>j</i> | <i>j</i> | <i>j</i> | <i>j</i> | <i>j</i> | <code>\mbfitj</code> | mathematical bold italic small j |
| U+1D48C | <i>k</i> | <i>k</i> | <i>k</i> | <i>k</i> | <i>k</i> | <i>k</i> | <i>k</i> | <code>\mbfitk</code> | mathematical bold italic small k |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------|----------|----------|----------|----------|----------|----------|----------------------|----------------------------------|
| U+1D48D | <i>l</i> | <i>l</i> | <i>l</i> | <i>l</i> | <i>l</i> | <i>l</i> | <i>l</i> | <code>\mbfitl</code> | mathematical bold italic small l |
| U+1D48E | <i>m</i> | <i>m</i> | <i>m</i> | <i>m</i> | <i>m</i> | <i>m</i> | <i>m</i> | <code>\mbfitm</code> | mathematical bold italic small m |
| U+1D48F | <i>n</i> | <i>n</i> | <i>n</i> | <i>n</i> | <i>n</i> | <i>n</i> | <i>n</i> | <code>\mbfitn</code> | mathematical bold italic small n |
| U+1D490 | <i>o</i> | <i>o</i> | <i>o</i> | <i>o</i> | <i>o</i> | <i>o</i> | <i>o</i> | <code>\mbfito</code> | mathematical bold italic small o |
| U+1D491 | <i>p</i> | <i>p</i> | <i>p</i> | <i>p</i> | <i>p</i> | <i>p</i> | <i>p</i> | <code>\mbfitp</code> | mathematical bold italic small p |
| U+1D492 | <i>q</i> | <i>q</i> | <i>q</i> | <i>q</i> | <i>q</i> | <i>q</i> | <i>q</i> | <code>\mbfitq</code> | mathematical bold italic small q |
| U+1D493 | <i>r</i> | <i>r</i> | <i>r</i> | <i>r</i> | <i>r</i> | <i>r</i> | <i>r</i> | <code>\mbfitr</code> | mathematical bold italic small r |
| U+1D494 | <i>s</i> | <i>s</i> | <i>s</i> | <i>s</i> | <i>s</i> | <i>s</i> | <i>s</i> | <code>\mbfits</code> | mathematical bold italic small s |
| U+1D495 | <i>t</i> | <i>t</i> | <i>t</i> | <i>t</i> | <i>t</i> | <i>t</i> | <i>t</i> | <code>\mbfitt</code> | mathematical bold italic small t |
| U+1D496 | <i>u</i> | <i>u</i> | <i>u</i> | <i>u</i> | <i>u</i> | <i>u</i> | <i>u</i> | <code>\mbfitu</code> | mathematical bold italic small u |
| U+1D497 | <i>v</i> | <i>v</i> | <i>v</i> | <i>v</i> | <i>v</i> | <i>v</i> | <i>v</i> | <code>\mbfitv</code> | mathematical bold italic small v |
| U+1D498 | <i>w</i> | <i>w</i> | <i>w</i> | <i>w</i> | <i>w</i> | <i>w</i> | <i>w</i> | <code>\mbfitw</code> | mathematical bold italic small w |
| U+1D499 | <i>x</i> | <i>x</i> | <i>x</i> | <i>x</i> | <i>x</i> | <i>x</i> | <i>x</i> | <code>\mbfitx</code> | mathematical bold italic small x |
| U+1D49A | <i>y</i> | <i>y</i> | <i>y</i> | <i>y</i> | <i>y</i> | <i>y</i> | <i>y</i> | <code>\mbfity</code> | mathematical bold italic small y |
| U+1D49B | <i>z</i> | <i>z</i> | <i>z</i> | <i>z</i> | <i>z</i> | <i>z</i> | <i>z</i> | <code>\mbfitz</code> | mathematical bold italic small z |

15.2.7 Bold italic Greek, uppercase

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------|----------|----------|----------|----------|----------|----------|----------------------------|--|
| U+1D71C | <i>Α</i> | <i>Α</i> | <i>Α</i> | <i>Α</i> | <i>Α</i> | <i>Α</i> | <i>Α</i> | <code>\mbfitAlpha</code> | mathematical bold italic capital alpha |
| U+1D71D | <i>Β</i> | <i>Β</i> | <i>Β</i> | <i>Β</i> | <i>Β</i> | <i>Β</i> | <i>Β</i> | <code>\mbfitBeta</code> | mathematical bold italic capital beta |
| U+1D71E | <i>Γ</i> | <i>Γ</i> | <i>Γ</i> | <i>Γ</i> | <i>Γ</i> | <i>Γ</i> | <i>Γ</i> | <code>\mbfitGamma</code> | mathematical bold italic capital gamma |
| U+1D71F | <i>Δ</i> | <i>Δ</i> | <i>Δ</i> | <i>Δ</i> | <i>Δ</i> | <i>Δ</i> | <i>Δ</i> | <code>\mbfitDelta</code> | mathematical bold italic capital delta |
| U+1D720 | <i>Ε</i> | <i>Ε</i> | <i>Ε</i> | <i>Ε</i> | <i>Ε</i> | <i>Ε</i> | <i>Ε</i> | <code>\mbfitEpsilon</code> | mathematical bold italic capital epsilon |
| U+1D721 | <i>Ζ</i> | <i>Ζ</i> | <i>Ζ</i> | <i>Ζ</i> | <i>Ζ</i> | <i>Ζ</i> | <i>Ζ</i> | <code>\mbfitZeta</code> | mathematical bold italic capital zeta |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------|----------|----------|----------|----------|----------|----------|-----------------------------|---|
| U+1D722 | <i>H</i> | <i>H</i> | <i>H</i> | <i>H</i> | <i>H</i> | <i>H</i> | <i>H</i> | <code>\mbfitEta</code> | mathematical bold italic capital eta |
| U+1D723 | <i>Θ</i> | <i>Θ</i> | <i>Θ</i> | <i>Θ</i> | <i>Θ</i> | <i>Θ</i> | <i>Θ</i> | <code>\mbfitTheta</code> | mathematical bold italic capital theta |
| U+1D724 | <i>I</i> | <i>I</i> | <i>I</i> | <i>I</i> | <i>I</i> | <i>I</i> | <i>I</i> | <code>\mbfitIota</code> | mathematical bold italic capital iota |
| U+1D725 | <i>K</i> | <i>K</i> | <i>K</i> | <i>K</i> | <i>K</i> | <i>K</i> | <i>K</i> | <code>\mbfitKappa</code> | mathematical bold italic capital kappa |
| U+1D726 | <i>Λ</i> | <i>Λ</i> | <i>Λ</i> | <i>Λ</i> | <i>Λ</i> | <i>Λ</i> | <i>Λ</i> | <code>\mbfitLambda</code> | mathematical bold italic capital lambda |
| U+1D727 | <i>M</i> | <i>M</i> | <i>M</i> | <i>M</i> | <i>M</i> | <i>M</i> | <i>M</i> | <code>\mbfitMu</code> | mathematical bold italic capital mu |
| U+1D728 | <i>N</i> | <i>N</i> | <i>N</i> | <i>N</i> | <i>N</i> | <i>N</i> | <i>N</i> | <code>\mbfitNu</code> | mathematical bold italic capital nu |
| U+1D729 | <i>Ξ</i> | <i>Ξ</i> | <i>Ξ</i> | <i>Ξ</i> | <i>Ξ</i> | <i>Ξ</i> | <i>Ξ</i> | <code>\mbfitXi</code> | mathematical bold italic capital xi |
| U+1D72A | <i>O</i> | <i>O</i> | <i>O</i> | <i>O</i> | <i>O</i> | <i>O</i> | <i>O</i> | <code>\mbfitOmicron</code> | mathematical bold italic capital omicron |
| U+1D72B | <i>Π</i> | <i>Π</i> | <i>Π</i> | <i>Π</i> | <i>Π</i> | <i>Π</i> | <i>Π</i> | <code>\mbfitPi</code> | mathematical bold italic capital pi |
| U+1D72C | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <code>\mbfitRho</code> | mathematical bold italic capital rho |
| U+1D72D | <i>Θ</i> | <i>Θ</i> | <i>Θ</i> | <i>Θ</i> | <i>Θ</i> | <i>Θ</i> | <i>Θ</i> | <code>\mbfitvarTheta</code> | mathematical bold italic capital theta symbol |
| U+1D72E | <i>Σ</i> | <i>Σ</i> | <i>Σ</i> | <i>Σ</i> | <i>Σ</i> | <i>Σ</i> | <i>Σ</i> | <code>\mbfitSigma</code> | mathematical bold italic capital sigma |
| U+1D72F | <i>T</i> | <i>T</i> | <i>T</i> | <i>T</i> | <i>T</i> | <i>T</i> | <i>T</i> | <code>\mbfitTau</code> | mathematical bold italic capital tau |
| U+1D730 | <i>Υ</i> | <i>Υ</i> | <i>Υ</i> | <i>Υ</i> | <i>Υ</i> | <i>Υ</i> | <i>Υ</i> | <code>\mbfitUpsilon</code> | mathematical bold italic capital upsilon |
| U+1D731 | <i>Φ</i> | <i>Φ</i> | <i>Φ</i> | <i>Φ</i> | <i>Φ</i> | <i>Φ</i> | <i>Φ</i> | <code>\mbfitPhi</code> | mathematical bold italic capital phi |
| U+1D732 | <i>Χ</i> | <i>Χ</i> | <i>Χ</i> | <i>Χ</i> | <i>Χ</i> | <i>Χ</i> | <i>Χ</i> | <code>\mbfitChi</code> | mathematical bold italic capital chi |
| U+1D733 | <i>Ψ</i> | <i>Ψ</i> | <i>Ψ</i> | <i>Ψ</i> | <i>Ψ</i> | <i>Ψ</i> | <i>Ψ</i> | <code>\mbfitPsi</code> | mathematical bold italic capital psi |
| U+1D734 | <i>Ω</i> | <i>Ω</i> | <i>Ω</i> | <i>Ω</i> | <i>Ω</i> | <i>Ω</i> | <i>Ω</i> | <code>\mbfitOmega</code> | mathematical bold italic capital omega |

15.2.8 Bold italic Greek, lowercase

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------|----------|----------|----------|----------|----------|----------|--------------------------|--------------------------------------|
| U+1D736 | <i>α</i> | <i>α</i> | <i>α</i> | <i>α</i> | <i>α</i> | <i>α</i> | <i>α</i> | <code>\mbfitalpha</code> | mathematical bold italic small alpha |
| U+1D737 | <i>β</i> | <i>β</i> | <i>β</i> | <i>β</i> | <i>β</i> | <i>β</i> | <i>β</i> | <code>\mbfitbeta</code> | mathematical bold italic small beta |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------------------------|---|
| U+1D738 | γ | γ | γ | γ | γ | γ | γ | <code>\mbfitgamma</code> | mathematical bold italic small gamma |
| U+1D739 | δ | δ | δ | δ | δ | δ | δ | <code>\mbfitdelta</code> | mathematical bold italic small delta |
| U+1D73A | ε | ε | ε | ε | ε | ε | ε | <code>\mbfitvarepsilon</code> | mathematical bold italic small varepsilon |
| U+1D73B | ζ | ζ | ζ | ζ | ζ | ζ | ζ | <code>\mbfitzeta</code> | mathematical bold italic small zeta |
| U+1D73C | η | η | η | η | η | η | η | <code>\mbfiteta</code> | mathematical bold italic small eta |
| U+1D73D | θ | θ | θ | θ | θ | θ | θ | <code>\mbfittheta</code> | mathematical bold italic small theta |
| U+1D73E | ι | ι | ι | ι | ι | ι | ι | <code>\mbfitiota</code> | mathematical bold italic small iota |
| U+1D73F | κ | κ | κ | κ | κ | κ | κ | <code>\mbfitkappa</code> | mathematical bold italic small kappa |
| U+1D740 | λ | λ | λ | λ | λ | λ | λ | <code>\mbfitlambda</code> | mathematical bold italic small lambda |
| U+1D741 | μ | μ | μ | μ | μ | μ | μ | <code>\mbfitmu</code> | mathematical bold italic small mu |
| U+1D742 | ν | ν | ν | ν | ν | ν | ν | <code>\mbfitnu</code> | mathematical bold italic small nu |
| U+1D743 | ξ | ξ | ξ | ξ | ξ | ξ | ξ | <code>\mbfitxi</code> | mathematical bold italic small xi |
| U+1D744 | \omicron | \omicron | \omicron | \omicron | \omicron | \omicron | \omicron | <code>\mbfitomicron</code> | mathematical bold italic small omicron |
| U+1D745 | π | π | π | π | π | π | π | <code>\mbfitpi</code> | mathematical bold italic small pi |
| U+1D746 | ρ | ρ | ρ | ρ | ρ | ρ | ρ | <code>\mbfitrho</code> | mathematical bold italic small rho |
| U+1D747 | ς | ς | ς | ς | ς | ς | ς | <code>\mbfitvarsigma</code> | mathematical bold italic small final sigma |
| U+1D748 | σ | σ | σ | σ | σ | σ | σ | <code>\mbfitsigma</code> | mathematical bold italic small sigma |
| U+1D749 | τ | τ | τ | τ | τ | τ | τ | <code>\mbfittau</code> | mathematical bold italic small tau |
| U+1D74A | υ | υ | υ | υ | υ | υ | υ | <code>\mbfitupsilon</code> | mathematical bold italic small upsilon |
| U+1D74B | φ | φ | φ | φ | φ | φ | φ | <code>\mbfitvarphi</code> | mathematical bold italic small phi |
| U+1D74C | χ | χ | χ | χ | χ | χ | χ | <code>\mbfitchi</code> | mathematical bold italic small chi |
| U+1D74D | ψ | ψ | ψ | ψ | ψ | ψ | ψ | <code>\mbfitpsi</code> | mathematical bold italic small psi |
| U+1D74E | ω | ω | ω | ω | ω | ω | ω | <code>\mbfitomega</code> | mathematical bold italic small omega |
| U+1D74F | ∂ | ∂ | ∂ | ∂ | ∂ | ∂ | ∂ | <code>\mbfitpartial</code> | mathematical bold italic partial differential |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|----------------|--|
| U+1D750 | € | € | € | € | € | € | € | \mbfitepsilon | mathematical bold italic varepsilon symbol |
| U+1D751 | ϑ | ϑ | ϑ | ϑ | ϑ | ϑ | ϑ | \mbfitvartheta | mathematical bold italic theta symbol |
| U+1D752 | κ | κ | κ | κ | κ | κ | κ | \mbfitvarkappa | mathematical bold italic kappa symbol |
| U+1D753 | φ | φ | φ | φ | φ | φ | φ | \mbfitphi | mathematical bold italic phi symbol |
| U+1D754 | ρ | ρ | ρ | ρ | ρ | ρ | ρ | \mbfitvarrho | mathematical bold italic rho symbol |
| U+1D755 | ω | ω | ω | ω | ω | ω | ω | \mbfitvarpi | mathematical bold italic pi symbol |

15.2.9 Bold script, Latin, uppercase

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|----------|------------------------------------|
| U+1D4D0 | A | A | A | A | A | A | A | \mbfscrA | mathematical bold script capital a |
| U+1D4D1 | B | B | B | B | B | B | B | \mbfscrB | mathematical bold script capital b |
| U+1D4D2 | C | C | C | C | C | C | C | \mbfscrC | mathematical bold script capital c |
| U+1D4D3 | D | D | D | D | D | D | D | \mbfscrD | mathematical bold script capital d |
| U+1D4D4 | E | E | E | E | E | E | E | \mbfscrE | mathematical bold script capital e |
| U+1D4D5 | F | F | F | F | F | F | F | \mbfscrF | mathematical bold script capital f |
| U+1D4D6 | G | G | G | G | G | G | G | \mbfscrG | mathematical bold script capital g |
| U+1D4D7 | H | H | H | H | H | H | H | \mbfscrH | mathematical bold script capital h |
| U+1D4D8 | I | I | I | I | I | I | I | \mbfscrI | mathematical bold script capital i |
| U+1D4D9 | J | J | J | J | J | J | J | \mbfscrJ | mathematical bold script capital j |
| U+1D4DA | K | K | K | K | K | K | K | \mbfscrK | mathematical bold script capital k |
| U+1D4DB | L | L | L | L | L | L | L | \mbfscrL | mathematical bold script capital l |
| U+1D4DC | M | M | M | M | M | M | M | \mbfscrM | mathematical bold script capital m |
| U+1D4DD | N | N | N | N | N | N | N | \mbfscrN | mathematical bold script capital n |
| U+1D4DE | O | O | O | O | O | O | O | \mbfscrO | mathematical bold script capital o |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------------|------------------------------------|
| U+1D4DF | <i>P</i> | <i>Ṗ</i> | <i>Ṗ</i> | <i>Ṗ</i> | <i>Ṗ</i> | <i>Ṗ</i> | <i>Ṗ</i> | <code>\mbfscrP</code> | mathematical bold script capital p |
| U+1D4E0 | <i>Q</i> | <i>Ṙ</i> | <i>Ṙ</i> | <i>Ṙ</i> | <i>Ṙ</i> | <i>Ṙ</i> | <i>Ṙ</i> | <code>\mbfscrQ</code> | mathematical bold script capital q |
| U+1D4E1 | <i>R</i> | <i>Ṛ</i> | <i>Ṛ</i> | <i>Ṛ</i> | <i>Ṛ</i> | <i>Ṛ</i> | <i>Ṛ</i> | <code>\mbfscrR</code> | mathematical bold script capital r |
| U+1D4E2 | <i>S</i> | <i>Ṣ</i> | <i>Ṣ</i> | <i>Ṣ</i> | <i>Ṣ</i> | <i>Ṣ</i> | <i>Ṣ</i> | <code>\mbfscrS</code> | mathematical bold script capital s |
| U+1D4E3 | <i>T</i> | <i>Ṭ</i> | <i>Ṭ</i> | <i>Ṭ</i> | <i>Ṭ</i> | <i>Ṭ</i> | <i>Ṭ</i> | <code>\mbfscrT</code> | mathematical bold script capital t |
| U+1D4E4 | <i>U</i> | <i>Ṫ</i> | <i>Ṫ</i> | <i>Ṫ</i> | <i>Ṫ</i> | <i>Ṫ</i> | <i>Ṫ</i> | <code>\mbfscrU</code> | mathematical bold script capital u |
| U+1D4E5 | <i>V</i> | <i>Ṻ</i> | <i>Ṻ</i> | <i>Ṻ</i> | <i>Ṻ</i> | <i>Ṻ</i> | <i>Ṻ</i> | <code>\mbfscrV</code> | mathematical bold script capital v |
| U+1D4E6 | <i>W</i> | <i>Ṽ</i> | <i>Ṽ</i> | <i>Ṽ</i> | <i>Ṽ</i> | <i>Ṽ</i> | <i>Ṽ</i> | <code>\mbfscrW</code> | mathematical bold script capital w |
| U+1D4E7 | <i>X</i> | <i>Ẁ</i> | <i>Ẁ</i> | <i>Ẁ</i> | <i>Ẁ</i> | <i>Ẁ</i> | <i>Ẁ</i> | <code>\mbfscrX</code> | mathematical bold script capital x |
| U+1D4E8 | <i>Y</i> | <i>Ẃ</i> | <i>Ẃ</i> | <i>Ẃ</i> | <i>Ẃ</i> | <i>Ẃ</i> | <i>Ẃ</i> | <code>\mbfscrY</code> | mathematical bold script capital y |
| U+1D4E9 | <i>Z</i> | <i>Ẅ</i> | <i>Ẅ</i> | <i>Ẅ</i> | <i>Ẅ</i> | <i>Ẅ</i> | <i>Ẅ</i> | <code>\mbfscrZ</code> | mathematical bold script capital z |

15.2.10 Bold script, Latin, lowercase

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|-----------------|---|---|-----------------|-----------------|-----------------|-----------------------|----------------------------------|
| U+1D4EA | | <i>a</i> | | | <i>ṁ</i> | <i>ṁ</i> | <i>ṁ</i> | <code>\mbfscra</code> | mathematical bold script small a |
| U+1D4EB | | <i>b</i> | | | <i>ṃ</i> | <i>ṃ</i> | <i>ṃ</i> | <code>\mbfscrb</code> | mathematical bold script small b |
| U+1D4EC | | <i>c</i> | | | <i>ṅ</i> | <i>ṅ</i> | <i>ṅ</i> | <code>\mbfscrc</code> | mathematical bold script small c |
| U+1D4ED | | <i>d</i> | | | <i>ṇ</i> | <i>ṇ</i> | <i>ṇ</i> | <code>\mbfscrd</code> | mathematical bold script small d |
| U+1D4EE | | <i>e</i> | | | <i>ṅ</i> | <i>ṅ</i> | <i>ṅ</i> | <code>\mbfscre</code> | mathematical bold script small e |
| U+1D4EF | | <i>f</i> | | | <i>ṇ</i> | <i>ṇ</i> | <i>ṇ</i> | <code>\mbfscrf</code> | mathematical bold script small f |
| U+1D4F0 | | <i>g</i> | | | <i>ṇ</i> | <i>ṇ</i> | <i>ṇ</i> | <code>\mbfscrg</code> | mathematical bold script small g |
| U+1D4F1 | | <i>h</i> | | | <i>ṇ</i> | <i>ṇ</i> | <i>ṇ</i> | <code>\mbfscrh</code> | mathematical bold script small h |
| U+1D4F2 | | <i>i</i> | | | <i>ṇ</i> | <i>ṇ</i> | <i>ṇ</i> | <code>\mbfscri</code> | mathematical bold script small i |
| U+1D4F3 | | <i>j</i> | | | <i>ṇ</i> | <i>ṇ</i> | <i>ṇ</i> | <code>\mbfscrj</code> | mathematical bold script small j |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|----------|---|---|----------|----------|----------|------------------------|----------------------------------|
| U+1D4F4 | | <i>k</i> | | | <i>k</i> | <i>k</i> | <i>k</i> | <code>\mbfscrk</code> | mathematical bold script small k |
| U+1D4F5 | | <i>l</i> | | | <i>l</i> | <i>l</i> | <i>l</i> | <code>\mbfscr l</code> | mathematical bold script small l |
| U+1D4F6 | | <i>m</i> | | | <i>m</i> | <i>m</i> | <i>m</i> | <code>\mbfscrm</code> | mathematical bold script small m |
| U+1D4F7 | | <i>n</i> | | | <i>n</i> | <i>n</i> | <i>n</i> | <code>\mbfscrn</code> | mathematical bold script small n |
| U+1D4F8 | | <i>o</i> | | | <i>o</i> | <i>o</i> | <i>o</i> | <code>\mbfscro</code> | mathematical bold script small o |
| U+1D4F9 | | <i>p</i> | | | <i>p</i> | <i>p</i> | <i>p</i> | <code>\mbfscrp</code> | mathematical bold script small p |
| U+1D4FA | | <i>q</i> | | | <i>q</i> | <i>q</i> | <i>q</i> | <code>\mbfscrq</code> | mathematical bold script small q |
| U+1D4FB | | <i>r</i> | | | <i>r</i> | <i>r</i> | <i>r</i> | <code>\mbfscrr</code> | mathematical bold script small r |
| U+1D4FC | | <i>s</i> | | | <i>s</i> | <i>s</i> | <i>s</i> | <code>\mbfscrs</code> | mathematical bold script small s |
| U+1D4FD | | <i>t</i> | | | <i>t</i> | <i>t</i> | <i>t</i> | <code>\mbfscrt</code> | mathematical bold script small t |
| U+1D4FE | | <i>u</i> | | | <i>u</i> | <i>u</i> | <i>u</i> | <code>\mbfscru</code> | mathematical bold script small u |
| U+1D4FF | | <i>v</i> | | | <i>v</i> | <i>v</i> | <i>v</i> | <code>\mbfscrv</code> | mathematical bold script small v |
| U+1D500 | | <i>w</i> | | | <i>w</i> | <i>w</i> | <i>w</i> | <code>\mbfscrw</code> | mathematical bold script small w |
| U+1D501 | | <i>x</i> | | | <i>x</i> | <i>x</i> | <i>x</i> | <code>\mbfscrx</code> | mathematical bold script small x |
| U+1D502 | | <i>y</i> | | | <i>y</i> | <i>y</i> | <i>y</i> | <code>\mbfscry</code> | mathematical bold script small y |
| U+1D503 | | <i>z</i> | | | <i>z</i> | <i>z</i> | <i>z</i> | <code>\mbfscrz</code> | mathematical bold script small z |

15.2.11 Bold fraktur, Latin, uppercase

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------|----------|----------|----------|----------|----------|----------|------------------------|-------------------------------------|
| U+1D56C | <i>A</i> | <i>A</i> | <i>A</i> | <i>A</i> | <i>A</i> | <i>A</i> | <i>A</i> | <code>\mbffrakA</code> | mathematical bold fraktur capital a |
| U+1D56D | <i>B</i> | <i>B</i> | <i>B</i> | <i>B</i> | <i>B</i> | <i>B</i> | <i>B</i> | <code>\mbffrakB</code> | mathematical bold fraktur capital b |
| U+1D56E | <i>C</i> | <i>C</i> | <i>C</i> | <i>C</i> | <i>C</i> | <i>C</i> | <i>C</i> | <code>\mbffrakC</code> | mathematical bold fraktur capital c |
| U+1D56F | <i>D</i> | <i>D</i> | <i>D</i> | <i>D</i> | <i>D</i> | <i>D</i> | <i>D</i> | <code>\mbffrakD</code> | mathematical bold fraktur capital d |
| U+1D570 | <i>E</i> | <i>E</i> | <i>E</i> | <i>E</i> | <i>E</i> | <i>E</i> | <i>E</i> | <code>\mbffrakE</code> | mathematical bold fraktur capital e |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|-----------|-------------------------------------|
| U+1D571 | | | | | | | | \mbffrakF | mathematical bold fraktur capital f |
| U+1D572 | | | | | | | | \mbffrakG | mathematical bold fraktur capital g |
| U+1D573 | | | | | | | | \mbffrakH | mathematical bold fraktur capital h |
| U+1D574 | | | | | | | | \mbffrakI | mathematical bold fraktur capital i |
| U+1D575 | | | | | | | | \mbffrakJ | mathematical bold fraktur capital j |
| U+1D576 | | | | | | | | \mbffrakK | mathematical bold fraktur capital k |
| U+1D577 | | | | | | | | \mbffrakL | mathematical bold fraktur capital l |
| U+1D578 | | | | | | | | \mbffrakM | mathematical bold fraktur capital m |
| U+1D579 | | | | | | | | \mbffrakN | mathematical bold fraktur capital n |
| U+1D57A | | | | | | | | \mbffrakO | mathematical bold fraktur capital o |
| U+1D57B | | | | | | | | \mbffrakP | mathematical bold fraktur capital p |
| U+1D57C | | | | | | | | \mbffrakQ | mathematical bold fraktur capital q |
| U+1D57D | | | | | | | | \mbffrakR | mathematical bold fraktur capital r |
| U+1D57E | | | | | | | | \mbffrakS | mathematical bold fraktur capital s |
| U+1D57F | | | | | | | | \mbffrakT | mathematical bold fraktur capital t |
| U+1D580 | | | | | | | | \mbffrakU | mathematical bold fraktur capital u |
| U+1D581 | | | | | | | | \mbffrakV | mathematical bold fraktur capital v |
| U+1D582 | | | | | | | | \mbffrakW | mathematical bold fraktur capital w |
| U+1D583 | | | | | | | | \mbffrakX | mathematical bold fraktur capital x |
| U+1D584 | | | | | | | | \mbffrakY | mathematical bold fraktur capital y |
| U+1D585 | | | | | | | | \mbffrakZ | mathematical bold fraktur capital z |

15.2.12 Bold fraktur, Latin, lowercase

| usv | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------|----------|----------|----------|----------|----------|----------|------------------------|-----------------------------------|
| U+1D586 | a | a | a | a | a | a | a | <code>\mbffraka</code> | mathematical bold fraktur small a |
| U+1D587 | b | b | b | b | b | b | b | <code>\mbffrakb</code> | mathematical bold fraktur small b |
| U+1D588 | c | c | c | c | c | c | c | <code>\mbffrakc</code> | mathematical bold fraktur small c |
| U+1D589 | d | d | d | d | d | d | d | <code>\mbffrakd</code> | mathematical bold fraktur small d |
| U+1D58A | e | e | e | e | e | e | e | <code>\mbffrake</code> | mathematical bold fraktur small e |
| U+1D58B | f | f | f | f | f | f | f | <code>\mbffrakf</code> | mathematical bold fraktur small f |
| U+1D58C | g | g | g | g | g | g | g | <code>\mbffrakg</code> | mathematical bold fraktur small g |
| U+1D58D | h | h | h | h | h | h | h | <code>\mbffrakh</code> | mathematical bold fraktur small h |
| U+1D58E | i | i | i | i | i | i | i | <code>\mbffraki</code> | mathematical bold fraktur small i |
| U+1D58F | j | j | j | j | j | j | j | <code>\mbffrakj</code> | mathematical bold fraktur small j |
| U+1D590 | k | k | k | k | k | k | k | <code>\mbffrakk</code> | mathematical bold fraktur small k |
| U+1D591 | l | l | l | l | l | l | l | <code>\mbffrakl</code> | mathematical bold fraktur small l |
| U+1D592 | m | m | m | m | m | m | m | <code>\mbffrakm</code> | mathematical bold fraktur small m |
| U+1D593 | n | n | n | n | n | n | n | <code>\mbffrakn</code> | mathematical bold fraktur small n |
| U+1D594 | o | o | o | o | o | o | o | <code>\mbffrako</code> | mathematical bold fraktur small o |
| U+1D595 | p | p | p | p | p | p | p | <code>\mbffrakp</code> | mathematical bold fraktur small p |
| U+1D596 | q | q | q | q | q | q | q | <code>\mbffrakq</code> | mathematical bold fraktur small q |
| U+1D597 | r | r | r | r | r | r | r | <code>\mbffrakr</code> | mathematical bold fraktur small r |
| U+1D598 | s | s | s | s | s | s | s | <code>\mbffraks</code> | mathematical bold fraktur small s |
| U+1D599 | t | t | t | t | t | t | t | <code>\mbffrakt</code> | mathematical bold fraktur small t |
| U+1D59A | u | u | u | u | u | u | u | <code>\mbffraku</code> | mathematical bold fraktur small u |
| U+1D59B | v | v | v | v | v | v | v | <code>\mbffrakv</code> | mathematical bold fraktur small v |
| U+1D59C | w | w | w | w | w | w | w | <code>\mbffrakw</code> | mathematical bold fraktur small w |
| U+1D59D | x | x | x | x | x | x | x | <code>\mbffrakx</code> | mathematical bold fraktur small x |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|-----------|-----------------------------------|
| U+1D59E | Ų | Ų | Ų | Ų | Ų | Ų | Ų | \mbffraky | mathematical bold fraktur small y |
| U+1D59F | Ẓ | Ẓ | Ẓ | Ẓ | Ẓ | Ẓ | Ẓ | \mbffrakz | mathematical bold fraktur small z |

15.2.13 Bold sans serif, Latin, uppercase

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|-----------|--|
| U+1D5D4 | A | A | A | A | A | A | A | \mbfsansA | mathematical sans-serif bold capital a |
| U+1D5D5 | B | B | B | B | B | B | B | \mbfsansB | mathematical sans-serif bold capital b |
| U+1D5D6 | C | C | C | C | C | C | C | \mbfsansC | mathematical sans-serif bold capital c |
| U+1D5D7 | D | D | D | D | D | D | D | \mbfsansD | mathematical sans-serif bold capital d |
| U+1D5D8 | E | E | E | E | E | E | E | \mbfsansE | mathematical sans-serif bold capital e |
| U+1D5D9 | F | F | F | F | F | F | F | \mbfsansF | mathematical sans-serif bold capital f |
| U+1D5DA | G | G | G | G | G | G | G | \mbfsansG | mathematical sans-serif bold capital g |
| U+1D5DB | H | H | H | H | H | H | H | \mbfsansH | mathematical sans-serif bold capital h |
| U+1D5DC | I | I | I | I | I | I | I | \mbfsansI | mathematical sans-serif bold capital i |
| U+1D5DD | J | J | J | J | J | J | J | \mbfsansJ | mathematical sans-serif bold capital j |
| U+1D5DE | K | K | K | K | K | K | K | \mbfsansK | mathematical sans-serif bold capital k |
| U+1D5DF | L | L | L | L | L | L | L | \mbfsansL | mathematical sans-serif bold capital l |
| U+1D5E0 | M | M | M | M | M | M | M | \mbfsansM | mathematical sans-serif bold capital m |
| U+1D5E1 | N | N | N | N | N | N | N | \mbfsansN | mathematical sans-serif bold capital n |
| U+1D5E2 | O | O | O | O | O | O | O | \mbfsansO | mathematical sans-serif bold capital o |
| U+1D5E3 | P | P | P | P | P | P | P | \mbfsansP | mathematical sans-serif bold capital p |
| U+1D5E4 | Q | Q | Q | Q | Q | Q | Q | \mbfsansQ | mathematical sans-serif bold capital q |
| U+1D5E5 | R | R | R | R | R | R | R | \mbfsansR | mathematical sans-serif bold capital r |
| U+1D5E6 | S | S | S | S | S | S | S | \mbfsansS | mathematical sans-serif bold capital s |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------|----------|----------|----------|----------|----------|----------|------------------------|--|
| U+1D5E7 | T | T | T | T | T | T | T | <code>\mbfsansT</code> | mathematical sans-serif bold capital t |
| U+1D5E8 | U | U | U | U | U | U | U | <code>\mbfsansU</code> | mathematical sans-serif bold capital u |
| U+1D5E9 | V | V | V | V | V | V | V | <code>\mbfsansV</code> | mathematical sans-serif bold capital v |
| U+1D5EA | W | W | W | W | W | W | W | <code>\mbfsansW</code> | mathematical sans-serif bold capital w |
| U+1D5EB | X | X | X | X | X | X | X | <code>\mbfsansX</code> | mathematical sans-serif bold capital x |
| U+1D5EC | Y | Y | Y | Y | Y | Y | Y | <code>\mbfsansY</code> | mathematical sans-serif bold capital y |
| U+1D5ED | Z | Z | Z | Z | Z | Z | Z | <code>\mbfsansZ</code> | mathematical sans-serif bold capital z |

15.2.14 Bold sans serif, Latin, lowercase

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------|----------|----------|----------|----------|----------|----------|------------------------|--------------------------------------|
| U+1D5EE | a | a | a | a | a | a | a | <code>\mbfsansa</code> | mathematical sans-serif bold small a |
| U+1D5EF | b | b | b | b | b | b | b | <code>\mbfsansb</code> | mathematical sans-serif bold small b |
| U+1D5F0 | c | c | c | c | c | c | c | <code>\mbfsansc</code> | mathematical sans-serif bold small c |
| U+1D5F1 | d | d | d | d | d | d | d | <code>\mbfsansd</code> | mathematical sans-serif bold small d |
| U+1D5F2 | e | e | e | e | e | e | e | <code>\mbfsanse</code> | mathematical sans-serif bold small e |
| U+1D5F3 | f | f | f | f | f | f | f | <code>\mbfsansf</code> | mathematical sans-serif bold small f |
| U+1D5F4 | g | g | g | g | g | g | g | <code>\mbfsansg</code> | mathematical sans-serif bold small g |
| U+1D5F5 | h | h | h | h | h | h | h | <code>\mbfsansh</code> | mathematical sans-serif bold small h |
| U+1D5F6 | i | i | i | i | i | i | i | <code>\mbfsansi</code> | mathematical sans-serif bold small i |
| U+1D5F7 | j | j | j | j | j | j | j | <code>\mbfsansj</code> | mathematical sans-serif bold small j |
| U+1D5F8 | k | k | k | k | k | k | k | <code>\mbfsansk</code> | mathematical sans-serif bold small k |
| U+1D5F9 | l | l | l | l | l | l | l | <code>\mbfsansl</code> | mathematical sans-serif bold small l |
| U+1D5FA | m | m | m | m | m | m | m | <code>\mbfsansm</code> | mathematical sans-serif bold small m |
| U+1D5FB | n | n | n | n | n | n | n | <code>\mbfsansn</code> | mathematical sans-serif bold small n |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------|----------|----------|----------|----------|----------|----------|------------------------|--------------------------------------|
| U+1D5FC | o | o | o | o | o | o | o | <code>\mbfsanso</code> | mathematical sans-serif bold small o |
| U+1D5FD | p | p | p | p | p | p | p | <code>\mbfsansp</code> | mathematical sans-serif bold small p |
| U+1D5FE | q | q | q | q | q | q | q | <code>\mbfsansq</code> | mathematical sans-serif bold small q |
| U+1D5FF | r | r | r | r | r | r | r | <code>\mbfsansr</code> | mathematical sans-serif bold small r |
| U+1D600 | s | s | s | s | s | s | s | <code>\mbfsanss</code> | mathematical sans-serif bold small s |
| U+1D601 | t | t | t | t | t | t | t | <code>\mbfsanst</code> | mathematical sans-serif bold small t |
| U+1D602 | u | u | u | u | u | u | u | <code>\mbfsansu</code> | mathematical sans-serif bold small u |
| U+1D603 | v | v | v | v | v | v | v | <code>\mbfsansv</code> | mathematical sans-serif bold small v |
| U+1D604 | w | w | w | w | w | w | w | <code>\mbfsansw</code> | mathematical sans-serif bold small w |
| U+1D605 | x | x | x | x | x | x | x | <code>\mbfsansx</code> | mathematical sans-serif bold small x |
| U+1D606 | y | y | y | y | y | y | y | <code>\mbfsansy</code> | mathematical sans-serif bold small y |
| U+1D607 | z | z | z | z | z | z | z | <code>\mbfsansz</code> | mathematical sans-serif bold small z |

15.2.15 Bold italic sans serif, Latin, uppercase

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------|----------|----------|----------|----------|----------|----------|--------------------------|---|
| U+1D63C | A | A | A | A | A | A | A | <code>\mbfitsansA</code> | mathematical sans-serif bold italic capital a |
| U+1D63D | B | B | B | B | B | B | B | <code>\mbfitsansB</code> | mathematical sans-serif bold italic capital b |
| U+1D63E | C | C | C | C | C | C | C | <code>\mbfitsansC</code> | mathematical sans-serif bold italic capital c |
| U+1D63F | D | D | D | D | D | D | D | <code>\mbfitsansD</code> | mathematical sans-serif bold italic capital d |
| U+1D640 | E | E | E | E | E | E | E | <code>\mbfitsansE</code> | mathematical sans-serif bold italic capital e |
| U+1D641 | F | F | F | F | F | F | F | <code>\mbfitsansF</code> | mathematical sans-serif bold italic capital f |
| U+1D642 | G | G | G | G | G | G | G | <code>\mbfitsansG</code> | mathematical sans-serif bold italic capital g |
| U+1D643 | H | H | H | H | H | H | H | <code>\mbfitsansH</code> | mathematical sans-serif bold italic capital h |
| U+1D644 | I | I | I | I | I | I | I | <code>\mbfitsansI</code> | mathematical sans-serif bold italic capital i |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------|----------|----------|----------|----------|----------|----------|-------------|---|
| U+1D645 | <i>J</i> | <i>J</i> | <i>J</i> | <i>J</i> | <i>J</i> | <i>J</i> | <i>J</i> | \mbfitsansJ | mathematical sans-serif bold italic capital j |
| U+1D646 | <i>K</i> | <i>K</i> | <i>K</i> | <i>K</i> | <i>K</i> | <i>K</i> | <i>K</i> | \mbfitsansK | mathematical sans-serif bold italic capital k |
| U+1D647 | <i>L</i> | <i>L</i> | <i>L</i> | <i>L</i> | <i>L</i> | <i>L</i> | <i>L</i> | \mbfitsansL | mathematical sans-serif bold italic capital l |
| U+1D648 | <i>M</i> | <i>M</i> | <i>M</i> | <i>M</i> | <i>M</i> | <i>M</i> | <i>M</i> | \mbfitsansM | mathematical sans-serif bold italic capital m |
| U+1D649 | <i>N</i> | <i>N</i> | <i>N</i> | <i>N</i> | <i>N</i> | <i>N</i> | <i>N</i> | \mbfitsansN | mathematical sans-serif bold italic capital n |
| U+1D64A | <i>O</i> | <i>O</i> | <i>O</i> | <i>O</i> | <i>O</i> | <i>O</i> | <i>O</i> | \mbfitsansO | mathematical sans-serif bold italic capital o |
| U+1D64B | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | \mbfitsansP | mathematical sans-serif bold italic capital p |
| U+1D64C | <i>Q</i> | <i>Q</i> | <i>Q</i> | <i>Q</i> | <i>Q</i> | <i>Q</i> | <i>Q</i> | \mbfitsansQ | mathematical sans-serif bold italic capital q |
| U+1D64D | <i>R</i> | <i>R</i> | <i>R</i> | <i>R</i> | <i>R</i> | <i>R</i> | <i>R</i> | \mbfitsansR | mathematical sans-serif bold italic capital r |
| U+1D64E | <i>S</i> | <i>S</i> | <i>S</i> | <i>S</i> | <i>S</i> | <i>S</i> | <i>S</i> | \mbfitsansS | mathematical sans-serif bold italic capital s |
| U+1D64F | <i>T</i> | <i>T</i> | <i>T</i> | <i>T</i> | <i>T</i> | <i>T</i> | <i>T</i> | \mbfitsansT | mathematical sans-serif bold italic capital t |
| U+1D650 | <i>U</i> | <i>U</i> | <i>U</i> | <i>U</i> | <i>U</i> | <i>U</i> | <i>U</i> | \mbfitsansU | mathematical sans-serif bold italic capital u |
| U+1D651 | <i>V</i> | <i>V</i> | <i>V</i> | <i>V</i> | <i>V</i> | <i>V</i> | <i>V</i> | \mbfitsansV | mathematical sans-serif bold italic capital v |
| U+1D652 | <i>W</i> | <i>W</i> | <i>W</i> | <i>W</i> | <i>W</i> | <i>W</i> | <i>W</i> | \mbfitsansW | mathematical sans-serif bold italic capital w |
| U+1D653 | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | <i>X</i> | \mbfitsansX | mathematical sans-serif bold italic capital x |
| U+1D654 | <i>Y</i> | <i>Y</i> | <i>Y</i> | <i>Y</i> | <i>Y</i> | <i>Y</i> | <i>Y</i> | \mbfitsansY | mathematical sans-serif bold italic capital y |
| U+1D655 | <i>Z</i> | <i>Z</i> | <i>Z</i> | <i>Z</i> | <i>Z</i> | <i>Z</i> | <i>Z</i> | \mbfitsansZ | mathematical sans-serif bold italic capital z |

15.2.16 Bold italic sans serif, Latin, lowercase

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------|----------|----------|----------|----------|----------|----------|-------------|---|
| U+1D656 | <i>a</i> | <i>a</i> | <i>a</i> | <i>a</i> | <i>a</i> | <i>a</i> | <i>a</i> | \mbfitsansa | mathematical sans-serif bold italic small a |
| U+1D657 | <i>b</i> | <i>b</i> | <i>b</i> | <i>b</i> | <i>b</i> | <i>b</i> | <i>b</i> | \mbfitsansb | mathematical sans-serif bold italic small b |
| U+1D658 | <i>c</i> | <i>c</i> | <i>c</i> | <i>c</i> | <i>c</i> | <i>c</i> | <i>c</i> | \mbfitsansc | mathematical sans-serif bold italic small c |
| U+1D659 | <i>d</i> | <i>d</i> | <i>d</i> | <i>d</i> | <i>d</i> | <i>d</i> | <i>d</i> | \mbfitsansd | mathematical sans-serif bold italic small d |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------|----------|----------|----------|----------|----------|----------|--------------------------|---|
| U+1D65A | <i>e</i> | <i>e</i> | <i>e</i> | <i>e</i> | <i>e</i> | <i>e</i> | <i>e</i> | <code>\mbfitsanse</code> | mathematical sans-serif bold italic small e |
| U+1D65B | <i>f</i> | <i>f</i> | <i>f</i> | <i>f</i> | <i>f</i> | <i>f</i> | <i>f</i> | <code>\mbfitsansf</code> | mathematical sans-serif bold italic small f |
| U+1D65C | <i>g</i> | <i>g</i> | <i>g</i> | <i>g</i> | <i>g</i> | <i>g</i> | <i>g</i> | <code>\mbfitsansg</code> | mathematical sans-serif bold italic small g |
| U+1D65D | <i>h</i> | <i>h</i> | <i>h</i> | <i>h</i> | <i>h</i> | <i>h</i> | <i>h</i> | <code>\mbfitsansh</code> | mathematical sans-serif bold italic small h |
| U+1D65E | <i>i</i> | <i>i</i> | <i>i</i> | <i>i</i> | <i>i</i> | <i>i</i> | <i>i</i> | <code>\mbfitsansi</code> | mathematical sans-serif bold italic small i |
| U+1D65F | <i>j</i> | <i>j</i> | <i>j</i> | <i>j</i> | <i>j</i> | <i>j</i> | <i>j</i> | <code>\mbfitsansj</code> | mathematical sans-serif bold italic small j |
| U+1D660 | <i>k</i> | <i>k</i> | <i>k</i> | <i>k</i> | <i>k</i> | <i>k</i> | <i>k</i> | <code>\mbfitsansk</code> | mathematical sans-serif bold italic small k |
| U+1D661 | <i>l</i> | <i>l</i> | <i>l</i> | <i>l</i> | <i>l</i> | <i>l</i> | <i>l</i> | <code>\mbfitsansl</code> | mathematical sans-serif bold italic small l |
| U+1D662 | <i>m</i> | <i>m</i> | <i>m</i> | <i>m</i> | <i>m</i> | <i>m</i> | <i>m</i> | <code>\mbfitsansm</code> | mathematical sans-serif bold italic small m |
| U+1D663 | <i>n</i> | <i>n</i> | <i>n</i> | <i>n</i> | <i>n</i> | <i>n</i> | <i>n</i> | <code>\mbfitsansn</code> | mathematical sans-serif bold italic small n |
| U+1D664 | <i>o</i> | <i>o</i> | <i>o</i> | <i>o</i> | <i>o</i> | <i>o</i> | <i>o</i> | <code>\mbfitsanso</code> | mathematical sans-serif bold italic small o |
| U+1D665 | <i>p</i> | <i>p</i> | <i>p</i> | <i>p</i> | <i>p</i> | <i>p</i> | <i>p</i> | <code>\mbfitsansp</code> | mathematical sans-serif bold italic small p |
| U+1D666 | <i>q</i> | <i>q</i> | <i>q</i> | <i>q</i> | <i>q</i> | <i>q</i> | <i>q</i> | <code>\mbfitsansq</code> | mathematical sans-serif bold italic small q |
| U+1D667 | <i>r</i> | <i>r</i> | <i>r</i> | <i>r</i> | <i>r</i> | <i>r</i> | <i>r</i> | <code>\mbfitsansr</code> | mathematical sans-serif bold italic small r |
| U+1D668 | <i>s</i> | <i>s</i> | <i>s</i> | <i>s</i> | <i>s</i> | <i>s</i> | <i>s</i> | <code>\mbfitsanss</code> | mathematical sans-serif bold italic small s |
| U+1D669 | <i>t</i> | <i>t</i> | <i>t</i> | <i>t</i> | <i>t</i> | <i>t</i> | <i>t</i> | <code>\mbfitsanst</code> | mathematical sans-serif bold italic small t |
| U+1D66A | <i>u</i> | <i>u</i> | <i>u</i> | <i>u</i> | <i>u</i> | <i>u</i> | <i>u</i> | <code>\mbfitsansu</code> | mathematical sans-serif bold italic small u |
| U+1D66B | <i>v</i> | <i>v</i> | <i>v</i> | <i>v</i> | <i>v</i> | <i>v</i> | <i>v</i> | <code>\mbfitsansv</code> | mathematical sans-serif bold italic small v |
| U+1D66C | <i>w</i> | <i>w</i> | <i>w</i> | <i>w</i> | <i>w</i> | <i>w</i> | <i>w</i> | <code>\mbfitsansw</code> | mathematical sans-serif bold italic small w |
| U+1D66D | <i>x</i> | <i>x</i> | <i>x</i> | <i>x</i> | <i>x</i> | <i>x</i> | <i>x</i> | <code>\mbfitsansx</code> | mathematical sans-serif bold italic small x |
| U+1D66E | <i>y</i> | <i>y</i> | <i>y</i> | <i>y</i> | <i>y</i> | <i>y</i> | <i>y</i> | <code>\mbfitsansy</code> | mathematical sans-serif bold italic small y |
| U+1D66F | <i>z</i> | <i>z</i> | <i>z</i> | <i>z</i> | <i>z</i> | <i>z</i> | <i>z</i> | <code>\mbfitsansz</code> | mathematical sans-serif bold italic small z |

15.2.17 Bold sans serif Greek, uppercase

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|------------------|---|
| U+1D756 | Α | Α | Α | Α | Α | Α | Α | \mbfsansAlpha | mathematical sans-serif bold capital alpha |
| U+1D757 | Β | Β | Β | Β | Β | Β | Β | \mbfsansBeta | mathematical sans-serif bold capital beta |
| U+1D758 | Γ | Γ | Γ | Γ | Γ | Γ | Γ | \mbfsansGamma | mathematical sans-serif bold capital gamma |
| U+1D759 | Δ | Δ | Δ | Δ | Δ | Δ | Δ | \mbfsansDelta | mathematical sans-serif bold capital delta |
| U+1D75A | Ε | Ε | Ε | Ε | Ε | Ε | Ε | \mbfsansEpsilon | mathematical sans-serif bold capital epsilon |
| U+1D75B | Ζ | Ζ | Ζ | Ζ | Ζ | Ζ | Ζ | \mbfsansZeta | mathematical sans-serif bold capital zeta |
| U+1D75C | Η | Η | Η | Η | Η | Η | Η | \mbfsansEta | mathematical sans-serif bold capital eta |
| U+1D75D | Θ | Θ | Θ | Θ | Θ | Θ | Θ | \mbfsansTheta | mathematical sans-serif bold capital theta |
| U+1D75E | Ι | Ι | Ι | Ι | Ι | Ι | Ι | \mbfsansIota | mathematical sans-serif bold capital iota |
| U+1D75F | Κ | Κ | Κ | Κ | Κ | Κ | Κ | \mbfsansKappa | mathematical sans-serif bold capital kappa |
| U+1D760 | Λ | Λ | Λ | Λ | Λ | Λ | Λ | \mbfsansLambda | mathematical sans-serif bold capital lambda |
| U+1D761 | Μ | Μ | Μ | Μ | Μ | Μ | Μ | \mbfsansMu | mathematical sans-serif bold capital mu |
| U+1D762 | Ν | Ν | Ν | Ν | Ν | Ν | Ν | \mbfsansNu | mathematical sans-serif bold capital nu |
| U+1D763 | Ξ | Ξ | Ξ | Ξ | Ξ | Ξ | Ξ | \mbfsansXi | mathematical sans-serif bold capital xi |
| U+1D764 | Ο | Ο | Ο | Ο | Ο | Ο | Ο | \mbfsansOmicron | mathematical sans-serif bold capital omicron |
| U+1D765 | Π | Π | Π | Π | Π | Π | Π | \mbfsansPi | mathematical sans-serif bold capital pi |
| U+1D766 | Ρ | Ρ | Ρ | Ρ | Ρ | Ρ | Ρ | \mbfsansRho | mathematical sans-serif bold capital rho |
| U+1D767 | Θ | Θ | Θ | Θ | Θ | Θ | Θ | \mbfsansvarTheta | mathematical sans-serif bold capital theta symbol |
| U+1D768 | Σ | Σ | Σ | Σ | Σ | Σ | Σ | \mbfsansSigma | mathematical sans-serif bold capital sigma |
| U+1D769 | Τ | Τ | Τ | Τ | Τ | Τ | Τ | \mbfsansTau | mathematical sans-serif bold capital tau |
| U+1D76A | Υ | Υ | Υ | Υ | Υ | Υ | Υ | \mbfsansUpsilon | mathematical sans-serif bold capital upsilon |
| U+1D76B | Φ | Φ | Φ | Φ | Φ | Φ | Φ | \mbfsansPhi | mathematical sans-serif bold capital phi |
| U+1D76C | Χ | Χ | Χ | Χ | Χ | Χ | Χ | \mbfsansChi | mathematical sans-serif bold capital chi |
| U+1D76D | Ψ | Ψ | Ψ | Ψ | Ψ | Ψ | Ψ | \mbfsansPsi | mathematical sans-serif bold capital psi |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|---------------|--|
| U+1D76E | Ω | Ω | Ω | Ω | Ω | Ω | Ω | \mbfsansOmega | mathematical sans-serif bold capital omega |

15.2.18 Bold sans serif Greek, lowercase

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|--------------------|--|
| U+1D770 | α | α | α | α | α | α | α | \mbfsansalpha | mathematical sans-serif bold small alpha |
| U+1D771 | β | β | β | β | β | β | β | \mbfsansbeta | mathematical sans-serif bold small beta |
| U+1D772 | γ | γ | γ | γ | γ | γ | γ | \mbfsansgamma | mathematical sans-serif bold small gamma |
| U+1D773 | δ | δ | δ | δ | δ | δ | δ | \mbfsansdelta | mathematical sans-serif bold small delta |
| U+1D774 | ε | ε | ε | ε | ε | ε | ε | \mbfsansvarepsilon | mathematical sans-serif bold small varepsilon |
| U+1D775 | ζ | ζ | ζ | ζ | ζ | ζ | ζ | \mbfsanszeta | mathematical sans-serif bold small zeta |
| U+1D776 | η | η | η | η | η | η | η | \mbfsanseta | mathematical sans-serif bold small eta |
| U+1D777 | θ | θ | θ | θ | θ | θ | θ | \mbfsanstheta | mathematical sans-serif bold small theta |
| U+1D778 | ι | ι | ι | ι | ι | ι | ι | \mbfsansiota | mathematical sans-serif bold small iota |
| U+1D779 | κ | κ | κ | κ | κ | κ | κ | \mbfsanskappa | mathematical sans-serif bold small kappa |
| U+1D77A | λ | λ | λ | λ | λ | λ | λ | \mbfsanslambda | mathematical sans-serif bold small lambda |
| U+1D77B | μ | μ | μ | μ | μ | μ | μ | \mbfsansmu | mathematical sans-serif bold small mu |
| U+1D77C | ν | ν | ν | ν | ν | ν | ν | \mbfsansnu | mathematical sans-serif bold small nu |
| U+1D77D | ξ | ξ | ξ | ξ | ξ | ξ | ξ | \mbfsansxi | mathematical sans-serif bold small xi |
| U+1D77E | ο | ο | ο | ο | ο | ο | ο | \mbfsansomicron | mathematical sans-serif bold small omicron |
| U+1D77F | π | π | π | π | π | π | π | \mbfsanspi | mathematical sans-serif bold small pi |
| U+1D780 | ρ | ρ | ρ | ρ | ρ | ρ | ρ | \mbfsansrho | mathematical sans-serif bold small rho |
| U+1D781 | ς | ς | ς | ς | ς | ς | ς | \mbfsansvarsigma | mathematical sans-serif bold small final sigma |
| U+1D782 | σ | σ | σ | σ | σ | σ | σ | \mbfsanssigma | mathematical sans-serif bold small sigma |
| U+1D783 | τ | τ | τ | τ | τ | τ | τ | \mbfsanstau | mathematical sans-serif bold small tau |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|------------------|---|
| U+1D784 | ϰ | ϰ | ϰ | ϰ | ϰ | ϰ | ϰ | \mbfsansupsilon | mathematical sans-serif bold small upsilon |
| U+1D785 | ϰ | ϰ | ϰ | ϰ | ϰ | ϰ | ϰ | \mbfsansvarphi | mathematical sans-serif bold small phi |
| U+1D786 | ϰ | ϰ | ϰ | ϰ | ϰ | ϰ | ϰ | \mbfsanschi | mathematical sans-serif bold small chi |
| U+1D787 | ϰ | ϰ | ϰ | ϰ | ϰ | ϰ | ϰ | \mbfsanspsi | mathematical sans-serif bold small psi |
| U+1D788 | ϰ | ϰ | ϰ | ϰ | ϰ | ϰ | ϰ | \mbfsansomega | mathematical sans-serif bold small omega |
| U+1D789 | ∂ | ∂ | ∂ | ∂ | ∂ | | | \mbfsanspartial | mathematical sans-serif bold partial differential |
| U+1D78A | ϵ | ϵ | ϵ | ϵ | ϵ | ϵ | | \mbfsansepsilon | mathematical sans-serif bold varepsilon symbol |
| U+1D78B | ϑ | ϑ | ϑ | ϑ | ϑ | ϑ | ϑ | \mbfsansvartheta | mathematical sans-serif bold theta symbol |
| U+1D78C | ϰ | ϰ | ϰ | | ϰ | | | \mbfsansvarkappa | mathematical sans-serif bold kappa symbol |
| U+1D78D | ϰ | ϰ | ϰ | ϰ | ϰ | | | \mbfsansphi | mathematical sans-serif bold phi symbol |
| U+1D78E | ϰ | ϰ | ϰ | ϰ | ϰ | | | \mbfsansvarrho | mathematical sans-serif bold rho symbol |
| U+1D78F | ϰ | ϰ | ϰ | ϰ | ϰ | | | \mbfsansvarpi | mathematical sans-serif bold pi symbol |

15.2.19 Bold italic sans serif Greek, uppercase

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|-------------------|---|
| U+1D790 | Α | Α | Α | Α | Α | | Α | \mbfitsansAlpha | mathematical sans-serif bold italic capital alpha |
| U+1D791 | Β | Β | Β | Β | Β | | Β | \mbfitsansBeta | mathematical sans-serif bold italic capital beta |
| U+1D792 | Γ | Γ | Γ | Γ | Γ | | Γ | \mbfitsansGamma | mathematical sans-serif bold italic capital gamma |
| U+1D793 | Δ | Δ | Δ | Δ | Δ | | Δ | \mbfitsansDelta | mathematical sans-serif bold italic capital delta |
| U+1D794 | Ε | Ε | Ε | Ε | Ε | | Ε | \mbfitsansEpsilon | mathematical sans-serif bold italic capital epsilon |
| U+1D795 | Ζ | Ζ | Ζ | Ζ | Ζ | | Ζ | \mbfitsansZeta | mathematical sans-serif bold italic capital zeta |
| U+1D796 | Η | Η | Η | Η | Η | | Η | \mbfitsansEta | mathematical sans-serif bold italic capital eta |
| U+1D797 | Θ | Θ | Θ | Θ | Θ | | Θ | \mbfitsansTheta | mathematical sans-serif bold italic capital theta |
| U+1D798 | Ι | Ι | Ι | Ι | Ι | | Ι | \mbfitsansIota | mathematical sans-serif bold italic capital iota |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------|----------|----------|----------|----------|---|----------|---------------------------------|--|
| U+1D799 | <i>K</i> | <i>K</i> | <i>K</i> | <i>K</i> | <i>K</i> | | <i>K</i> | <code>\mbfitsansKappa</code> | mathematical sans-serif bold italic capital kappa |
| U+1D79A | <i>Λ</i> | <i>Λ</i> | <i>Λ</i> | <i>Λ</i> | <i>Λ</i> | | <i>Λ</i> | <code>\mbfitsansLambda</code> | mathematical sans-serif bold italic capital lambda |
| U+1D79B | <i>M</i> | <i>M</i> | <i>M</i> | <i>M</i> | <i>M</i> | | <i>M</i> | <code>\mbfitsansMu</code> | mathematical sans-serif bold italic capital mu |
| U+1D79C | <i>N</i> | <i>N</i> | <i>N</i> | <i>N</i> | <i>N</i> | | <i>N</i> | <code>\mbfitsansNu</code> | mathematical sans-serif bold italic capital nu |
| U+1D79D | <i>Ξ</i> | <i>Ξ</i> | <i>Ξ</i> | <i>Ξ</i> | <i>Ξ</i> | | <i>Ξ</i> | <code>\mbfitsansXi</code> | mathematical sans-serif bold italic capital xi |
| U+1D79E | <i>Ο</i> | <i>Ο</i> | <i>Ο</i> | <i>Ο</i> | <i>Ο</i> | | <i>Ο</i> | <code>\mbfitsansOmicron</code> | mathematical sans-serif bold italic capital omicron |
| U+1D79F | <i>Π</i> | <i>Π</i> | <i>Π</i> | <i>Π</i> | <i>Π</i> | | <i>Π</i> | <code>\mbfitsansPi</code> | mathematical sans-serif bold italic capital pi |
| U+1D7A0 | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | <i>P</i> | | <i>P</i> | <code>\mbfitsansRho</code> | mathematical sans-serif bold italic capital rho |
| U+1D7A1 | <i>Θ</i> | <i>Θ</i> | <i>Θ</i> | <i>Θ</i> | <i>Θ</i> | | <i>Θ</i> | <code>\mbfitsansvarTheta</code> | mathematical sans-serif bold italic capital theta symbol |
| U+1D7A2 | <i>Σ</i> | <i>Σ</i> | <i>Σ</i> | <i>Σ</i> | <i>Σ</i> | | <i>Σ</i> | <code>\mbfitsansSigma</code> | mathematical sans-serif bold italic capital sigma |
| U+1D7A3 | <i>T</i> | <i>T</i> | <i>T</i> | <i>T</i> | <i>T</i> | | <i>T</i> | <code>\mbfitsansTau</code> | mathematical sans-serif bold italic capital tau |
| U+1D7A4 | <i>Υ</i> | <i>Υ</i> | <i>Υ</i> | <i>Υ</i> | <i>Υ</i> | | <i>Υ</i> | <code>\mbfitsansUpsilon</code> | mathematical sans-serif bold italic capital upsilon |
| U+1D7A5 | <i>Φ</i> | <i>Φ</i> | <i>Φ</i> | <i>Φ</i> | <i>Φ</i> | | <i>Φ</i> | <code>\mbfitsansPhi</code> | mathematical sans-serif bold italic capital phi |
| U+1D7A6 | <i>Χ</i> | <i>Χ</i> | <i>Χ</i> | <i>Χ</i> | <i>Χ</i> | | <i>Χ</i> | <code>\mbfitsansChi</code> | mathematical sans-serif bold italic capital chi |
| U+1D7A7 | <i>Ψ</i> | <i>Ψ</i> | <i>Ψ</i> | <i>Ψ</i> | <i>Ψ</i> | | <i>Ψ</i> | <code>\mbfitsansPsi</code> | mathematical sans-serif bold italic capital psi |
| U+1D7A8 | <i>Ω</i> | <i>Ω</i> | <i>Ω</i> | <i>Ω</i> | <i>Ω</i> | | <i>Ω</i> | <code>\mbfitsansOmega</code> | mathematical sans-serif bold italic capital omega |

15.2.20 Bold italic sans serif Greek, lowercase

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------|----------|----------|----------|----------|---|----------|-----------------------------------|--|
| U+1D7AA | <i>α</i> | <i>α</i> | <i>α</i> | <i>α</i> | <i>α</i> | | <i>α</i> | <code>\mbfitsansalpha</code> | mathematical sans-serif bold italic small alpha |
| U+1D7AB | <i>β</i> | <i>β</i> | <i>β</i> | <i>β</i> | <i>β</i> | | <i>β</i> | <code>\mbfitsansbeta</code> | mathematical sans-serif bold italic small beta |
| U+1D7AC | <i>γ</i> | <i>γ</i> | <i>γ</i> | <i>γ</i> | <i>γ</i> | | <i>γ</i> | <code>\mbfitsansgamma</code> | mathematical sans-serif bold italic small gamma |
| U+1D7AD | <i>δ</i> | <i>δ</i> | <i>δ</i> | <i>δ</i> | <i>δ</i> | | <i>δ</i> | <code>\mbfitsansdelta</code> | mathematical sans-serif bold italic small delta |
| U+1D7AE | <i>ε</i> | <i>ε</i> | <i>ε</i> | <i>ε</i> | <i>ε</i> | | <i>ε</i> | <code>\mbfitsansvarepsilon</code> | mathematical sans-serif bold italic small varepsilon |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|--------------------|--|
| U+1D7AF | ζ | ζ | ζ | ζ | ζ | | ζ | \mbfitsanszeta | mathematical sans-serif bold italic small zeta |
| U+1D7B0 | η | η | η | η | η | | η | \mbfitsanseta | mathematical sans-serif bold italic small eta |
| U+1D7B1 | θ | θ | θ | θ | θ | | θ | \mbfitsanstheta | mathematical sans-serif bold italic small theta |
| U+1D7B2 | ι | ι | ι | ι | ι | | ι | \mbfitsansiota | mathematical sans-serif bold italic small iota |
| U+1D7B3 | κ | κ | κ | κ | κ | | κ | \mbfitsanskappa | mathematical sans-serif bold italic small kappa |
| U+1D7B4 | λ | λ | λ | λ | λ | | λ | \mbfitsanslambda | mathematical sans-serif bold italic small lambda |
| U+1D7B5 | μ | μ | μ | μ | μ | | μ | \mbfitsansmu | mathematical sans-serif bold italic small mu |
| U+1D7B6 | ν | ν | ν | ν | ν | | ν | \mbfitsansnu | mathematical sans-serif bold italic small nu |
| U+1D7B7 | ξ | ξ | ξ | ξ | ξ | | ξ | \mbfitsansxi | mathematical sans-serif bold italic small xi |
| U+1D7B8 | ο | ο | ο | ο | ο | | ο | \mbfitsansomicron | mathematical sans-serif bold italic small omicron |
| U+1D7B9 | π | π | π | π | π | | π | \mbfitsanspi | mathematical sans-serif bold italic small pi |
| U+1D7BA | ρ | ρ | ρ | ρ | ρ | | ρ | \mbfitsansrho | mathematical sans-serif bold italic small rho |
| U+1D7BB | ς | σ | ς | ς | ς | | ς | \mbfitsansvarsigma | mathematical sans-serif bold italic small final sigma |
| U+1D7BC | σ | ς | σ | σ | σ | | σ | \mbfitsanssigma | mathematical sans-serif bold italic small sigma |
| U+1D7BD | τ | τ | τ | τ | τ | | τ | \mbfitsanstau | mathematical sans-serif bold italic small tau |
| U+1D7BE | υ | υ | υ | υ | υ | | υ | \mbfitsansupsilon | mathematical sans-serif bold italic small upsilon |
| U+1D7BF | φ | φ | φ | φ | φ | | φ | \mbfitsansvarphi | mathematical sans-serif bold italic small phi |
| U+1D7C0 | χ | χ | χ | χ | χ | | χ | \mbfitsanschi | mathematical sans-serif bold italic small chi |
| U+1D7C1 | ψ | ψ | ψ | ψ | ψ | | ψ | \mbfitsanspsi | mathematical sans-serif bold italic small psi |
| U+1D7C2 | ω | ω | ω | ω | ω | | ω | \mbfitsansomega | mathematical sans-serif bold italic small omega |
| U+1D7C3 | ∂ | ∂ | ∂ | ∂ | ∂ | | | \mbfitsanspartial | mathematical sans-serif bold italic partial differential |
| U+1D7C4 | ε | ε | ε | ε | ε | | | \mbfitsansepsilon | mathematical sans-serif bold italic varepsilon symbol |
| U+1D7C5 | ϑ | ϑ | ϑ | ϑ | ϑ | | ϑ | \mbfitsansvartheta | mathematical sans-serif bold italic theta symbol |
| U+1D7C6 | κ | κ | κ | | κ | | | \mbfitsansvarkappa | mathematical sans-serif bold italic kappa symbol |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------|----------|----------|----------|----------|---|----|-------------------------------|--|
| U+1D7C7 | ϕ | ϕ | ϕ | ϕ | ϕ | | | <code>\mbfitsansphi</code> | mathematical sans-serif bold italic phi symbol |
| U+1D7C8 | ρ | ρ | ρ | ρ | ρ | | | <code>\mbfitsansvarrho</code> | mathematical sans-serif bold italic rho symbol |
| U+1D7C9 | ϖ | ϖ | ϖ | ϖ | ϖ | | | <code>\mbfitsansvarpi</code> | mathematical sans-serif bold italic pi symbol |

15.3 Miscellaneous

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------------------------|-------------------------------------|
| U+000F0 | \eth | \eth | \eth | \eth | \eth | \eth | \eth | <code>\matheth</code> | eth |
| U+02010 | - | - | - | - | - | - | - | <code>\mathhyphen</code> | hyphen |
| U+02102 | \mathbb{C} | \mathbb{C} | \mathbb{C} | \mathbb{C} | \mathbb{C} | \mathbb{C} | \mathbb{C} | <code>\BbbC</code> | /bbb c, open face c |
| U+0210A | | \mathscr{g} | \mathscr{g} | | \mathscr{g} | \mathscr{g} | \mathscr{g} | <code>\mscrg</code> | /scr g, script letter g |
| U+0210B | \mathcal{H} | \mathcal{H} | \mathcal{H} | \mathcal{H} | \mathcal{H} | \mathcal{H} | \mathcal{H} | <code>\mscrH</code> | hamiltonian (script capital h) |
| U+0210C | \mathfrak{H} | \mathfrak{H} | \mathfrak{H} | \mathfrak{H} | \mathfrak{H} | \mathfrak{H} | \mathfrak{H} | <code>\mfrakH</code> | /frak h, upper case h |
| U+0210D | \mathbb{H} | \mathbb{H} | \mathbb{H} | \mathbb{H} | \mathbb{H} | \mathbb{H} | \mathbb{H} | <code>\BbbH</code> | /bbb h, open face h |
| U+0210F | \hslash | \hslash | \hslash | \hslash | \hslash | \hslash | \hslash | <code>\hslash^(a)</code> | /hslash - variant planck's over 2pi |
| U+02110 | \mathscr{I} | \mathscr{I} | \mathscr{I} | \mathscr{I} | \mathscr{I} | \mathscr{I} | \mathscr{I} | <code>\mscrI</code> | /scr i, script letter i |
| U+02111 | \mathfrak{I} | \mathfrak{I} | \mathfrak{I} | \mathfrak{I} | \mathfrak{I} | \mathfrak{I} | \mathfrak{I} | <code>\Im^(p)</code> | imaginary part |
| U+02112 | \mathcal{L} | \mathcal{L} | \mathcal{L} | \mathcal{L} | \mathcal{L} | \mathcal{L} | \mathcal{L} | <code>\mscrL</code> | lagrangian (script capital l) |
| U+02113 | ℓ | ℓ | ℓ | ℓ | ℓ | ℓ | ℓ | <code>\ell^(p)</code> | cursive small l |
| U+02115 | \mathbb{N} | \mathbb{N} | \mathbb{N} | \mathbb{N} | \mathbb{N} | \mathbb{N} | \mathbb{N} | <code>\BbbN</code> | /bbb n, open face n |
| U+02118 | \wp | \wp | \wp | \wp | \wp | \wp | \wp | <code>\wp^(p)</code> | weierstrass p |
| U+02119 | \mathbb{P} | \mathbb{P} | \mathbb{P} | \mathbb{P} | \mathbb{P} | \mathbb{P} | \mathbb{P} | <code>\BbbP</code> | /bbb p, open face p |
| U+0211A | \mathbb{Q} | \mathbb{Q} | \mathbb{Q} | \mathbb{Q} | \mathbb{Q} | \mathbb{Q} | \mathbb{Q} | <code>\BbbQ</code> | /bbb q, open face q |
| U+0211B | \mathcal{R} | \mathcal{R} | \mathcal{R} | \mathcal{R} | \mathcal{R} | \mathcal{R} | \mathcal{R} | <code>\mscrR</code> | /scr r, script letter r |
| U+0211C | \Re | \Re | \Re | \Re | \Re | \Re | \Re | <code>\Re^(p)</code> | real part |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|---|---|---|---|---|----|-------------------------|---------------------------------------|
| U+0211D | ℞ | ℞ | ℞ | ℞ | ℞ | ℞ | ℞ | \BbbR | /bbb r, open face r |
| U+02124 | ℤ | ℤ | ℤ | ℤ | ℤ | ℤ | ℤ | \BbbZ | /bbb z, open face z |
| U+02128 | ℱ | ℱ | ℱ | ℱ | ℱ | ℱ | ℱ | \mfracZ | /frak z, upper case z |
| U+02129 | | ι | | | | | | \turnediota | turned iota |
| U+0212B | Å | Å | Å | | Å | Å | | \Angstrom | angstrom capital a, ring |
| U+0212C | ℬ | ℬ | ℬ | ℬ | ℬ | ℬ | ℬ | \mscrB | bernoulli function (script capital b) |
| U+0212D | ℄ | ℄ | ℄ | ℄ | ℄ | ℄ | ℄ | \mfracC | black-letter capital c |
| U+0212F | | ℓ | ℓ | | ℓ | ℓ | ℓ | \mscre | /scr e, script letter e |
| U+02130 | ℰ | ℰ | ℰ | ℰ | ℰ | ℰ | ℰ | \mscrE | /scr e, script letter e |
| U+02131 | ℱ | ℱ | ℱ | ℱ | ℱ | ℱ | ℱ | \mscrF | /scr f, script letter f |
| U+02133 | ℳ | ℳ | ℳ | ℳ | ℳ | ℳ | ℳ | \mscrM | physics m-matrix (script capital m) |
| U+02134 | | ℴ | ℴ | | ℴ | ℴ | ℴ | \mscro | order of (script small o) |
| U+02135 | ℵ | ℵ | ℵ | ℵ | ℵ | ℵ | ℵ | \aleph ^(p) | aleph, hebrew |
| U+02136 | ℶ | ℶ | ℶ | ℶ | ℶ | ℶ | ℶ | \beth ^(a) | beth, hebrew |
| U+02137 | ℷ | ℷ | ℷ | ℷ | ℷ | ℷ | ℷ | \gimel ^(a) | gimel, hebrew |
| U+02138 | ℸ | ℸ | ℸ | ℸ | ℸ | ℸ | ℸ | \daleth ^(a) | daleth, hebrew |
| U+0213D | Ⅎ | Ⅎ | Ⅎ | | Ⅎ | Ⅎ | | \Bbbgamma | double-struck small gamma |
| U+0213E | ℳ | ℳ | ℳ | | ℳ | ℳ | | \BbbGamma | double-struck capital gamma |
| U+0213F | ℰ | ℰ | ℰ | | ℰ | ℰ | | \BbbPi | double-struck capital pi |
| U+02202 | ∂ | ∂ | ∂ | ∂ | ∂ | ∂ | ∂ | \partial ^(p) | partial differential |
| U+02207 | ∇ | ∇ | ∇ | ∇ | ∇ | ∇ | ∇ | \nabla ^(p) | nabla, del, hamilton operator |
| U+1D6A4 | ℓ | ℓ | ℓ | ℓ | ℓ | ℓ | ℓ | \imath ^(p) | mathematical italic small dotless i |
| U+1D6A5 | ℵ | ℵ | ℵ | ℵ | ℵ | ℵ | ℵ | \jmath ^(p) | mathematical italic small dotless j |
| U+1D6C1 | ∇ | ∇ | ∇ | ∇ | ∇ | ∇ | ∇ | \mbfnabla | mathematical bold nabla |

| USV | LM | S | E | K | T | G | Li | Macro | Description |
|---------|----|----------|---|---|---|---|----------|-----------------|---|
| U+1D6FB | ↵ | ↴ | ↵ | ↵ | ↴ | ↴ | ↵ | \mitnabla | mathematical italic nabla |
| U+1D735 | ↵ | ↴ | ↵ | ↵ | ↴ | ↴ | ↵ | \mbfitnabla | mathematical bold italic nabla |
| U+1D76F | ↵ | ↴ | ↵ | ↵ | ↴ | ↴ | ↵ | \mbfsansnabla | mathematical sans-serif bold nabla |
| U+1D7A9 | ↵ | ↴ | ↵ | ↵ | ↴ | | ↵ | \mbfitsansnabla | mathematical sans-serif bold italic nabla |
| U+1D7CA | | F | | | | | F | \mbfDigamma | mathematical bold capital digamma |
| U+1D7CB | | f | | | | | f | \mbfdigamma | mathematical bold small digamma |