

# Symbols defined by unicode-math

Will Robertson

Modified (df) to show Euler 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)

L **Latin Modern Math** (1602)

S **STIX Math Two** (2445)

E **Erewhon Math** (1669)

P **TeX Gyre Pagella Math** (1655)

A **Asana Math** (2175)

N **Euler Math** (1013)

Symbols defined in Plain  $\mathrm{T}_{\mathrm{E}}\mathrm{X}$  are indicated with <sup>(p)</sup> after their macro name.  $\mathrm{L}^{\mathrm{A}}\mathrm{T}_{\mathrm{E}}\mathrm{X}$  follows Plain  $\mathrm{T}_{\mathrm{E}}\mathrm{X}$ , but defines a handful more, indicated with <sup>(l)</sup>. Symbols defined in `amssymb` are indicated with <sup>(a)</sup>.

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  $\mathrm{T}_{\mathrm{E}}\mathrm{X}$  Live.<sup>1</sup>

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<sup>1</sup>Only a single  $\mathrm{T}_{\mathrm{E}}\mathrm{X}$  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	L	S	E	P	A	N	Macro	Description
U+00028	(	(	(	(	(	(	\lparen	left parenthesis
U+0005B	[	[	[	[	[	[	\lbrack	left square bracket
U+0007B	{	{	{	{	{	{	\lbrace <sup>(p)</sup>	left curly bracket
U+0221A	√	√	√	√	√	√	\sqrt <sup>(p)</sup>	radical
U+0221B	∛				∛	∛	\cuberoot	cube root
U+0221C	∜				∜	∜	\fourthroot	fourth root
U+02308	⌈	⌈	⌈	⌈	⌈	⌈	\lceil <sup>(p)</sup>	left ceiling
U+0230A	⌋	⌋	⌋	⌋	⌋	⌋	\lfloor <sup>(p)</sup>	left floor
U+0231C	⌑	⌑	⌑	⌑		⌑	\ulcorner	upper left corner
U+0231E	⌒	⌒	⌒	⌒		⌒	\llcorner	lower left corner
U+023B0	⎵	⎵				⎵	\lmoustache <sup>(p)</sup>	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 <sup>(p)</sup>	mathematical left angle bracket
U+027EA	⌘	⌘	⌘	⌘	⌘	⌘	\lAngle	mathematical left double angle bracket
U+027EC	⌞						\lbrbrak	mathematical left white tortoise shell bracket
U+027EE	(	(	(	(			\lgroupp <sup>(p)</sup>	mathematical left flattened parenthesis

usv	L	S	E	P	A	N	Macro	Description
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
U+0298B		[			[		\lbrackubar	left square bracket with under-bar
U+0298D		[			[		\lbrackultick	left square bracket with tick in top corner
U+0298F		[			[		\lbracklltick	left square bracket with tick in bottom corner
U+02991		<			<		\langedot	left angle bracket with dot
U+02993		<			<		\lparenless	left arc less-than bracket
U+02995		>			>		\Lparengtr	double left arc greater-than bracket
U+02997		[			[		\lblrbrak	left black tortoise shell bracket
U+029D8		⋈			⋈		\lvzigzag	left wiggly fence
U+029DA		⋈			⋈		\Lvzigzag	left double wiggly fence
U+029FC		<			<		\lcurvyangle	left pointing curved angle bracket

## 2 Closing symbols, \mathclose

USV	L	S	E	P	A	N	Macro	Description
U+00021	!	!	!	!	!	!	\mathexclam	exclamation mark
U+00029	)	)	)	)	)	)	\rparen	right parenthesis
U+0005D	]	]	]	]	]	]	\rbrack	right square bracket
U+0007D	}	}	}	}	}	}	\rbrace <sup>(p)</sup>	right curly bracket
U+02309	⌈	⌈	⌈	⌈	⌈	⌈	\rceil <sup>(p)</sup>	right ceiling
U+0230B	⌋	⌋	⌋	⌋	⌋	⌋	\rfloor <sup>(p)</sup>	right floor
U+0231D	⌵	⌵	⌵	⌵		⌵	\urcorner	upper right corner
U+0231F	⌴	⌴	⌴	⌴		⌴	\lrcorner	lower right corner
U+023B1		⌋	⌋			⌋	\rmoustache <sup>(p)</sup>	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 <sup>(p)</sup>	mathematical right angle bracket
U+027EB	⌋	⌋	⌋	⌋	⌋	⌋	\rAngle	mathematical right double angle bracket
U+027ED		⌋					\Rbrbrak	mathematical right white tortoise shell bracket
U+027EF	)	)	)	)			\rgroup <sup>(p)</sup>	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

usv	L	S	E	P	A	N	Macro	Description
U+0298A		⟳			⟳		<code>\rrangle</code>	z notation right binding bracket
U+0298C		⌋			⌋		<code>\rbrackubar</code>	right square bracket with underbar
U+0298E		⌋			⌋		<code>\rbracklrtick</code>	right square bracket with tick in bottom corner
U+02990		⌋			⌋		<code>\rbrackurtick</code>	right square bracket with tick in top corner
U+02992		⌋			⌋		<code>\rangledot</code>	right angle bracket with dot
U+02994		⌋			⌋		<code>\rpargtr</code>	right arc greater-than bracket
U+02996		⌋			⌋		<code>\Rparenless</code>	double right arc less-than bracket
U+02998		⌋			⌋		<code>\rblbrbrak</code>	right black tortoise shell bracket
U+029D9		⌋			⌋		<code>\rvzigzag</code>	right wiggly fence
U+029DB		⌋			⌋		<code>\Rvzigzag</code>	right double wiggly fence
U+029FD		⌋			⌋		<code>\rcurvyangle</code>	right pointing curved angle bracket

### 3 Fence symbols, `\mathfence`

usv	L	S	E	P	A	N	Macro	Description
U+0007C							<code>\vert<sup>(p)</sup></code>	vertical bar
U+02016							<code>\Vert<sup>(p)</sup></code>	double vertical bar
U+02980							<code>\Vvert</code>	triple vertical bar delimiter

## 4 Punctuation symbols, `\mathpunct`

USV	L	S	E	P	A	N	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	L	S	E	P	A	N	Macro	Description
U+023B4	$\overline{x+y}$	$\overline{x+y}$	$\overline{x+y}$	$\overline{x+y}$	$\overline{x+y}$	$\overline{x+y}$	<code>\overbracket</code>	top square bracket
U+023DC	$\overparen{x+y}$	$\overparen{x+y}$	$\overparen{x+y}$	$\overparen{x+y}$	$\overparen{x+y}$	$\overparen{x+y}$	<code>\overparen</code>	top parenthesis (mathematical use)
U+023DE	$\overbrace{x+y}$	$\overbrace{x+y}$	$\overbrace{x+y}$	$\overbrace{x+y}$	$\overbrace{x+y}$	$\overbrace{x+y}$	<code>\overbrace</code> <sup>(p)</sup>	top curly bracket (mathematical use)

## 6 ‘Under’ symbols, `\mathunder`

USV	L	S	E	P	A	N	Macro	Description
U+023B5	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	<code>\underbracket</code>	bottom square bracket
U+023DD	$\underparen{x+y}$	$\underparen{x+y}$	$\underparen{x+y}$	$\underparen{x+y}$	$\underparen{x+y}$	$\underparen{x+y}$	<code>\underparen</code>	bottom parenthesis (mathematical use)
U+023DF	$\underbrace{x+y}$	$\underbrace{x+y}$	$\underbrace{x+y}$	$\underbrace{x+y}$	$\underbrace{x+y}$	$\underbrace{x+y}$	<code>\underbrace</code> <sup>(p)</sup>	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	L	S	E	P	A	N	Macro	Description
u+00300	̀	˘	˙	˚	˛	˜	\grave <sup>(p)</sup>	grave accent
u+00301	´	ˆ	˘	˙	˚	˛	\acute <sup>(p)</sup>	acute accent
u+00302	ˆ	˘	˙	˚	˛	˜	\hat <sup>(p)</sup>	circumflex accent
u+00303	˜	˘	˙	˚	˛	˜	\tilde <sup>(p)</sup>	tilde
u+00304	¯	˘	˙	˚	˛	˜	\bar <sup>(p)</sup>	macron
u+00305	¯	˘	˙	˚	˛	˜	\overbar	overbar embellishment
u+00306	˘	˙	˚	˛	˜	˜	\breve <sup>(p)</sup>	breve
u+00307	˙	˘	˙	˚	˛	˜	\dot <sup>(p)</sup>	dot above
u+00308	¨	˘	˙	˚	˛	˜	\ddot <sup>(p)</sup>	dieresis
u+00309	˙	˘	˙	˚			\ovhook	combining hook above
u+0030A	˙	˘	˙	˚	˛	˜	\ocirc	ring
u+0030C	ˇ	˘	˙	˚	˛	˜	\check <sup>(p)</sup>	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 <sup>(p)</sup>	combining right arrow above



USV	L	S	E	P	A	N	Macro	Description
U+020DB	$\ddot{x}$	$\ddot{y}$	$\ddot{x}$	$\ddot{y}$	$\ddot{x}$	$\ddot{y}$	<code>\dddot</code>	combining three dots above
U+020DC	$\dddot{x}$	$\dddot{y}$	$\dddot{x}$	$\dddot{y}$	$\dddot{x}$	$\dddot{y}$	<code>\ddddot</code>	combining four dots above
U+020E7		$\overline{\overline{x}}$					<code>\annuity</code>	combining annuity symbol
U+020E9	$\widetilde{x}$	$\widetilde{y}$	$\widetilde{x}$	$\widetilde{y}$	$\widetilde{x}$	$\widetilde{y}$	<code>\widebridgeabove</code>	combining wide bridge above
U+020F0	$\overset{*}{x}$	$\overset{*}{y}$	$\overset{*}{x}$	$\overset{*}{y}$			<code>\asteraccent</code>	combining asterisk above

## 8 Accents wide, `\mathaccentwide`

USV	L	S	E	P	A	N	Macro	Description
U+00302	$\widehat{x+y}$	$\widehat{x+y}$	$\widehat{x+y}$	$\widehat{x+y}$	$\widehat{x+y}$	$\widehat{x+y}$	<code>\widehat<sup>(p)</sup></code>	circumflex accent
U+00303	$\widetilde{x+y}$	$\widetilde{x+y}$	$\widetilde{x+y}$	$\widetilde{x+y}$	$\widetilde{x+y}$	$\widetilde{x+y}$	<code>\widetilde<sup>(p)</sup></code>	tilde
U+00305	$\overline{x+y}$	$\overline{x+y}$	$\overline{x+y}$	$\overline{x+y}$	$\overline{x+y}$	$\overline{x+y}$	<code>\wideoverbar</code>	stretchy overbar embellishment
U+00306	$\overbreve{x+y}$	$\overbreve{x+y}$	$\overbreve{x+y}$	$\overbreve{x+y}$	$\overbreve{x+y}$	$\overbreve{x+y}$	<code>\widebreve</code>	stretchy breve
U+0030C	$\overcheck{x+y}$	$\overcheck{x+y}$	$\overcheck{x+y}$	$\overcheck{x+y}$	$\overcheck{x+y}$	$\overcheck{x+y}$	<code>\widecheck</code>	stretchy caron
U+020D0	$\overleftarrow{x+y}$	$\overleftarrow{x+y}$	$\overleftarrow{x+y}$	$\overleftarrow{x+y}$	$\overleftarrow{x+y}$	$\overleftarrow{x+y}$	<code>\overleftarrow</code>	combining left harpoon above
U+020D1	$\overrightarrow{x+y}$	$\overrightarrow{x+y}$	$\overrightarrow{x+y}$	$\overrightarrow{x+y}$	$\overrightarrow{x+y}$	$\overrightarrow{x+y}$	<code>\overrightarrow</code>	combining right harpoon above
U+020D6	$\overleftarrow{x+y}$	$\overleftarrow{x+y}$	$\overleftarrow{x+y}$	$\overleftarrow{x+y}$	$\overleftarrow{x+y}$	$\overleftarrow{x+y}$	<code>\overleftarrow<sup>(p)</sup></code>	combining left arrow above
U+020D7	$\overrightarrow{x+y}$	$\overrightarrow{x+y}$	$\overrightarrow{x+y}$	$\overrightarrow{x+y}$	$\overrightarrow{x+y}$	$\overrightarrow{x+y}$	<code>\overrightarrow<sup>(p)</sup></code>	combining left arrow above
U+020E1	$\overleftrightarrow{x+y}$	$\overleftrightarrow{x+y}$	$\overleftrightarrow{x+y}$	$\overleftrightarrow{x+y}$	$\overleftrightarrow{x+y}$	$\overleftrightarrow{x+y}$	<code>\overleftrightarrow</code>	combining left right arrow above

## 9 Bottom accents, `\mathbotaccent`

USV	L	S	E	P	A	N	Macro	Description
U+020E8	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	<code>\threeunderdot</code>	combining triple underdot

## 10 Bottom accents wide, `\mathbotaccentwide`












































































USV	L	S	E	P	A	N	Macro	Description
U+00330	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$		$\underline{x+y}$	<code>\widetilde</code>	under tilde accent (multiple characters and non-spacing)
U+00332	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	<code>\mathunderbar</code>	combining low line
U+0034D	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$		$\underline{x+y}$	<code>\underleftrightharpoonarrow</code>	underleftrightharpoon accent
U+020EC	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	<code>\underrightharpoonowdown</code>	combining rightwards harpoon with barb downwards
U+020ED	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	<code>\underleftharpoonowdown</code>	combining leftwards harpoon with barb downwards
U+020EE	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	<code>\underleftarrow</code>	combining left arrow below
U+020EF	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	<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	L	S	E	P	A	N	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	$\prod_0^1$	$\prod_0^1$	$\prod_0^1$	$\prod_0^1$	$\prod_0^1$	$\prod_0^1$	<code>\prod^{(p)}</code>	product operator
U+02210	$\prod_0^1$	$\prod_0^1$	$\prod_0^1$	$\prod_0^1$	$\prod_0^1$	$\prod_0^1$	<code>\coprod^{(p)}</code>	coproduct operator
U+02211	$\sum_0^1$	$\sum_0^1$	$\sum_0^1$	$\sum_0^1$	$\sum_0^1$	$\sum_0^1$	<code>\sum^{(p)}</code>	summation operator

USV	L	S	E	P	A	N	Macro	Description
U+0222B	$\int_0^1$	$\int_0^1$	$\int_0^1$	$\int_0^1$	$\int_0^1$	$\int_0^1$	<code>\int<sup>(p)</sup></code>	integral operator
U+0222C	$\iint_0^1$	$\iint_0^1$	$\iint_0^1$	$\iint_0^1$	$\iint_0^1$	$\iint_0^1$	<code>\iint</code>	double integral operator
U+0222D	$\iiint_0^1$	$\iiint_0^1$	$\iiint_0^1$	$\iiint_0^1$	$\iiint_0^1$	$\iiint_0^1$	<code>\iiint</code>	triple integral operator
U+0222E	$\oint_0^1$	$\oint_0^1$	$\oint_0^1$	$\oint_0^1$	$\oint_0^1$	$\oint_0^1$	<code>\oint<sup>(p)</sup></code>	contour integral operator
U+0222F	$\oiint_0^1$	$\oiint_0^1$	$\oiint_0^1$	$\oiint_0^1$	$\oiint_0^1$	$\oiint_0^1$	<code>\oiint</code>	double contour integral operator
U+02230	$\oiint_0^1$	$\oiint_0^1$	$\oiint_0^1$	$\oiint_0^1$	$\oiint_0^1$	$\oiint_0^1$	<code>\oiint</code>	triple contour integral operator
U+02231	$\int_0^1$	$\int_0^1$	$\int_0^1$	$\int_0^1$	$\int_0^1$	$\int_0^1$	<code>\intclockwise</code>	clockwise integral
U+02232	$\oint_0^1$	$\oint_0^1$	$\oint_0^1$	$\oint_0^1$	$\oint_0^1$	$\oint_0^1$	<code>\varointclockwise</code>	contour integral, clockwise
U+02233	$\oint_0^1$	$\oint_0^1$	$\oint_0^1$	$\oint_0^1$	$\oint_0^1$	$\oint_0^1$	<code>\ointctrclockwise</code>	contour integral, anticlockwise
U+022C0	$\bigwedge_0^1$	$\bigwedge_0^1$	$\bigwedge_0^1$	$\bigwedge_0^1$	$\bigwedge_0^1$	$\bigwedge_0^1$	<code>\bigwedge<sup>(p)</sup></code>	logical and operator
U+022C1	$\bigvee_0^1$	$\bigvee_0^1$	$\bigvee_0^1$	$\bigvee_0^1$	$\bigvee_0^1$	$\bigvee_0^1$	<code>\bigvee<sup>(p)</sup></code>	logical or operator
U+022C2	$\bigcap_0^1$	$\bigcap_0^1$	$\bigcap_0^1$	$\bigcap_0^1$	$\bigcap_0^1$	$\bigcap_0^1$	<code>\bigcap<sup>(p)</sup></code>	intersection operator
U+022C3	$\bigcup_0^1$	$\bigcup_0^1$	$\bigcup_0^1$	$\bigcup_0^1$	$\bigcup_0^1$	$\bigcup_0^1$	<code>\bigcup<sup>(p)</sup></code>	union operator
U+027D5		$\boxtimes_0^1$			$\boxtimes_0^1$		<code>\leftouterjoin</code>	left outer join
U+027D6		$\boxtimes_0^1$			$\boxtimes_0^1$		<code>\rightouterjoin</code>	right outer join
U+027D7		$\boxtimes_0^1$			$\boxtimes_0^1$		<code>\fullouterjoin</code>	full outer join
U+027D8	$\bot_0^1$	$\bot_0^1$	$\bot_0^1$	$\bot_0^1$	$\bot_0^1$	$\bot_0^1$	<code>\bigbot</code>	large up tack

USV	L	S	E	P	A	N	Macro	Description
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<sup>(p)</sup></code>	n-ary circled dot operator
U+02A01							<code>\bigoplus<sup>(p)</sup></code>	n-ary circled plus operator
U+02A02							<code>\bigotimes<sup>(p)</sup></code>	n-ary circled times operator
U+02A03							<code>\bigcupdot</code>	n-ary union operator with dot
U+02A04							<code>\biguplus<sup>(p)</sup></code>	n-ary union operator with plus
U+02A05							<code>\bigsqcap</code>	n-ary square intersection operator
U+02A06							<code>\bigsqcup<sup>(p)</sup></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

USV	L	S	E	P	A	N	Macro	Description
U+02A0E		$\int_0^1$			$\int_0^1$		<code>\intBar</code>	integral with double stroke
U+02A0F		$\int_0^1$			$\int_0^1$		<code>\fint</code>	integral average with slash
U+02A10		$\int_0^1$			$\int_0^1$		<code>\cirfnint</code>	circulation function
U+02A11	$\int_0^1$	$\int_0^1$	$\int_0^1$	$\int_0^1$	$\int_0^1$	$\int_0^1$	<code>\awint</code>	anticlockwise integration
U+02A12		$\int_0^1$			$\int_0^1$		<code>\rppoint</code>	line integration with rectangular path around pole
U+02A13		$\int_0^1$			$\int_0^1$		<code>\scpoint</code>	line integration with semicircular path around pole
U+02A14		$\int_0^1$			$\int_0^1$		<code>\npoint</code>	line integration not including the pole
U+02A15		$\int_0^1$			$\int_0^1$		<code>\pointint</code>	integral around a point operator
U+02A16		$\int_0^1$			$\int_0^1$		<code>\sqint</code>	quaternion integral operator
U+02A17		$\int_0^1$			$\int_0^1$		<code>\intlarhk</code>	integral with leftwards arrow with hook
U+02A18		$\int_0^1$			$\int_0^1$		<code>\intx</code>	integral with times sign
U+02A19		$\int_0^1$			$\int_0^1$		<code>\intcap</code>	integral with intersection
U+02A1A		$\int_0^1$			$\int_0^1$		<code>\intcup</code>	integral with union
U+02A1B		$\int_0^1$			$\int_0^1$		<code>\upint</code>	integral with overbar
U+02A1C		$\int_0^1$			$\int_0^1$		<code>\lowint</code>	integral with underbar
U+02A1D		$\int_0^1$	$\int_0^1$		$\int_0^1$	$\int_0^1$	<code>\Join</code>	join

USV	L	S	E	P	A	N	Macro	Description
U+02A1E							<code>\bigtriangleleftleft</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	L	S	E	P	A	N	Macro	Description
U+0002B	+	+	+	+	+	+	<code>\mathplus</code>	plus sign b:
U+000B1	±	±	±	±	±	±	<code>\pm<sup>(p)</sup></code>	plus-or-minus sign
U+000B7	·	·	·	·	·	·	<code>\cdotp<sup>(p)</sup></code>	/centerdot b: middle dot
U+000D7	×	×	×	×	×	×	<code>\times<sup>(p)</sup></code>	multiply sign
U+000F7	÷	÷	÷	÷	÷	÷	<code>\div<sup>(p)</sup></code>	divide sign
U+02020	†	†	†	†	†	†	<code>\dagger<sup>(p)</sup></code>	dagger relation
U+02021	‡	‡	‡	‡	‡	‡	<code>\ddagger<sup>(p)</sup></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<sup>(p)</sup></code>	minus-or-plus sign
U+02214	⋈	⋈	⋈	⋈	⋈	⋈	<code>\dotplus<sup>(a)</sup></code>	plus sign, dot above
U+02215	/	/	/	/	/	/	<code>\divslash</code>	division slash
U+02216	↖	↖	↖	↖	↖	↖	<code>\smallsetminus<sup>(a)</sup></code>	small set minus (cf. reverse solidus)
U+02217	*	*	*	*	*	*	<code>\ast<sup>(p)</sup></code>	centered asterisk
U+02218	○	○	○	○	○	○	<code>\ysmwhtcircle</code>	composite function (small circle)
U+02219	●	●	●	●	●	●	<code>\ysmbllkcircle</code>	bullet operator
U+02227	∧	∧	∧	∧	∧	∧	<code>\wedge<sup>(p)</sup></code>	/wedge /land b: logical and

USV	L	S	E	P	A	N	Macro	Description
U+02228	∨	✓	∨	∨	✓	∨	<code>\vee<sup>(p)</sup></code>	/vee /lor b: logical or
U+02229	∩	∩	∩	∩	∩	∩	<code>\cap<sup>(p)</sup></code>	intersection
U+0222A	∪	∪	∪	∪	∪	∪	<code>\cup<sup>(p)</sup></code>	union or logical sum
U+02238	÷	÷	÷	÷	÷	÷	<code>\dotminus</code>	minus sign, dot above
U+0223E	≈	≈	≈	≈	≈	≈	<code>\invlazys</code>	most positive [inverted lazy s]
U+02240	⋈	⋈	⋈	⋈	⋈	⋈	<code>\wr<sup>(p)</sup></code>	wreath product
U+0228C	⋈	⋈	⋈	⋈	⋈	⋈	<code>\cupleftarrow</code>	multiset
U+0228D	⋈	⋈	⋈	⋈	⋈	⋈	<code>\cupdot</code>	union, with dot
U+0228E	⋈	⋈	⋈	⋈	⋈	⋈	<code>\uplus<sup>(p)</sup></code>	plus sign in union
U+02293	⊓	⊓	⊓	⊓	⊓	⊓	<code>\sqcap<sup>(p)</sup></code>	square intersection
U+02294	⊔	⊔	⊔	⊔	⊔	⊔	<code>\sqcup<sup>(p)</sup></code>	square union
U+02295	⊕	⊕	⊕	⊕	⊕	⊕	<code>\oplus<sup>(p)</sup></code>	plus sign in circle
U+02296	⊖	⊖	⊖	⊖	⊖	⊖	<code>\ominus<sup>(p)</sup></code>	minus sign in circle
U+02297	⊗	⊗	⊗	⊗	⊗	⊗	<code>\otimes<sup>(p)</sup></code>	multiply sign in circle
U+02298	⊘	⊘	⊘	⊘	⊘	⊘	<code>\oslash<sup>(p)</sup></code>	solidus in circle
U+02299	⊙	⊙	⊙	⊙	⊙	⊙	<code>\odot<sup>(p)</sup></code>	middle dot in circle
U+0229A	⊛	⊛	⊛	⊛	⊛	⊛	<code>\circledcirc<sup>(a)</sup></code>	small circle in circle
U+0229B	⊛	⊛	⊛	⊛	⊛	⊛	<code>\circledast<sup>(a)</sup></code>	asterisk in circle
U+0229C	⊜	⊜	⊜	⊜	⊜	⊜	<code>\circledequal</code>	equal in circle
U+0229D	⊜	⊜	⊜	⊜	⊜	⊜	<code>\circleddash<sup>(a)</sup></code>	hyphen in circle
U+0229E	⊞	⊞	⊞	⊞	⊞	⊞	<code>\boxplus<sup>(a)</sup></code>	plus sign in box
U+0229F	⊟	⊟	⊟	⊟	⊟	⊟	<code>\boxminus<sup>(a)</sup></code>	minus sign in box



















































USV	L	S	E	P	A	N	Macro	Description
U+022A0	☒	☒	☒	☒	☒	☒	<code>\boxtimes<sup>(a)</sup></code>	multiply sign in box
U+022A1	◻◌	◻◌	◻◌	◻◌	◻◌	◻◌	<code>\boxdot<sup>(a)</sup></code>	/dotsquare /boxdot b: small dot in box
U+022BA	⌞	⌞	⌞	⌞	⌞	⌞	<code>\intercal<sup>(a)</sup></code>	intercal
U+022BB	⋈	⋈	⋈	⋈	⋈	⋈	<code>\veebar<sup>(a)</sup></code>	logical or, bar below (large vee); exclusive disjunction
U+022BC	⌞	⌞	⌞	⌞	⌞	⌞	<code>\barwedge<sup>(a)</sup></code>	bar, wedge (large wedge)
U+022BD	⌞	⌞	⌞	⌞	⌞	⌞	<code>\barvee</code>	bar, vee (large vee)
U+022C4	◊	◊	◊	◊	◊	◊	<code>\smwhtdiamond</code>	white diamond
U+022C5	⋅	⋅	⋅	⋅	⋅	⋅	<code>\cdot<sup>(p)</sup></code>	small middle dot
U+022C6	★	★	★	★	★	★	<code>\star<sup>(p)</sup></code>	small star, filled, low
U+022C7	⋈	⋈	⋈	⋈	⋈	⋈	<code>\divideontimes<sup>(a)</sup></code>	division on times
U+022C9	⌞	⌞	⌞	⌞	⌞	⌞	<code>\ltimes<sup>(a)</sup></code>	times sign, left closed
U+022CA	⌞	⌞	⌞	⌞	⌞	⌞	<code>\rtimes<sup>(a)</sup></code>	times sign, right closed
U+022CB	⌞	⌞	⌞	⌞	⌞	⌞	<code>\leftthreetimes<sup>(a)</sup></code>	left semidirect product
U+022CC	⌞	⌞	⌞	⌞	⌞	⌞	<code>\rightthreetimes<sup>(a)</sup></code>	right semidirect product
U+022CE	⌞	⌞	⌞	⌞	⌞	⌞	<code>\curlyvee<sup>(a)</sup></code>	curly logical or
U+022CF	⌞	⌞	⌞	⌞	⌞	⌞	<code>\curlywedge<sup>(a)</sup></code>	curly logical and
U+022D2	⌞	⌞	⌞	⌞	⌞	⌞	<code>\Cap<sup>(a)</sup></code>	/cap /doublecap b: double intersection
U+022D3	⌞	⌞	⌞	⌞	⌞	⌞	<code>\Cup<sup>(a)</sup></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)]

USV	L	S	E	P	A	N	Macro	Description
U+0233D		◊					\obar	circle with vertical bar
U+025B3	△	△	△	△		△	\bigtriangleup <sup>(p)</sup>	big up triangle, open
U+025B7	▷	▷	▷	▷		▷	\triangleright <sup>(p)</sup>	(large) right triangle, open; z notation range restriction
U+025C1	◁	◁	◁	◁		◁	\triangleleft <sup>(p)</sup>	(large) left triangle, open; z notation domain restriction
U+025CB	○	○	○	○	○	○	\mdlgwhtcircle	medium large circle
U+025EB		◻					\boxbar	vertical bar in box
U+027C7		∨			∨		\veedot	or with dot inside
U+027D1		⋈			⋈		\wedgedot	and with dot
U+027E0	◊	◊	◊	◊	◊		\lozengeminus	lozenge divided by horizontal rule
U+027E1	◇	◇	◇	◇	◇		\concavediamond	white concave-sided diamond
U+027E2	◊	◊	◊	◊	◊		\concavediamondtickleft	white concave-sided diamond with leftwards tick
U+027E3	◊	◊	◊	◊	◊		\concavediamondtickright	white concave-sided diamond with rightwards tick
U+027E4	◻				◻		\whitesquaretickleft	white square with leftwards tick
U+027E5	◻				◻		\whitesquaretickright	white square with rightwards tick
U+029B5	⊖				⊖		\circlehbar	circle with horizontal bar
U+029B6	⊎				⊎		\circledvert	circled vertical bar
U+029B7	⦶				⦶		\circledparallel	circled parallel
U+029B8	⊘				⊘		\obslash	circled reverse solidus
U+029B9	⊥				⊥		\operp	circled perpendicular
U+029C0	⊠				⊠		\olessthan	circled less-than
U+029C1	⊡				⊡		\ogreaterthan	circled greater-than

usv	L	S	E	P	A	N	Macro	Description
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>\triangleserifs</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<sup>(p)</sup></code>	reverse solidus operator
U+029F6							<code>\dsol</code>	solidus with overbar
U+029F7							<code>\rsolbar</code>	reverse solidus with horizontal stroke
U+029FA							<code>\doubleplus</code>	double plus
U+029FB							<code>\tripleplus</code>	triple plus
U+029FE							<code>\tplus</code>	tiny
U+029FF							<code>\tminus</code>	miny
U+02A22							<code>\ringplus</code>	plus sign with small circle above
U+02A23							<code>\plushat</code>	plus sign with circumflex accent above
U+02A24							<code>\simplus</code>	plus sign with tilde above
U+02A25							<code>\plusdot</code>	plus sign with dot below
U+02A26							<code>\plussim</code>	plus sign with tilde below

USV	L	S	E	P	A	N	Macro	Description
U+02A27		$\frac{+}{2}$			$\frac{+}{2}$		<code>\plussubtwo</code>	plus sign with subscript two
U+02A28		$\blacktriangleplus$			$\blacktriangleplus$		<code>\plustrif</code>	plus sign with black triangle
U+02A29		$\overset{,}{-}$			$\overset{,}{-}$		<code>\commaminus</code>	minus sign with comma above
U+02A2A		$\underset{\cdot}{-}$			$\underset{\cdot}{-}$		<code>\minusdot</code>	minus sign with dot below
U+02A2B		$\ddot{-}$			$\ddot{-}$		<code>\minusfdots</code>	minus sign with falling dots
U+02A2C		$\dot{-}$			$\dot{-}$		<code>\minusrdots</code>	minus sign with rising dots
U+02A2D		$\oplus$			$\oplus$		<code>\opluslhrim</code>	plus sign in left half circle
U+02A2E		$\oplus$			$\oplus$		<code>\oplusrhrim</code>	plus sign in right half circle
U+02A2F	✖	✖	✖	✖	✖	✖	<code>\vectimes</code>	vector or cross product
U+02A30		$\dot{\times}$			$\dot{\times}$		<code>\dottimes</code>	multiplication sign with dot above
U+02A31		$\times$			$\times$		<code>\timesbar</code>	multiplication sign with underbar
U+02A32		$\ltimes$			$\ltimes$		<code>\btimes</code>	semidirect product with bottom closed
U+02A33		$\ast$			$\ast$		<code>\smashtimes</code>	smash product
U+02A34		$\otimes$			$\otimes$		<code>\otimeslhrim</code>	multiplication sign in left half circle
U+02A35		$\otimes$			$\otimes$		<code>\otimesrhrim</code>	multiplication sign in right half circle
U+02A36		$\hat{\otimes}$			$\hat{\otimes}$		<code>\otimeshat</code>	circled multiplication sign with circumflex accent
U+02A37		$\circledcirc$			$\circledcirc$		<code>\Otimes</code>	multiplication sign in double circle
U+02A38		$\oslash$			$\oslash$		<code>\odiv</code>	circled division sign
U+02A39		$\triangleplus$			$\triangleplus$		<code>\triangleplus</code>	plus sign in triangle
U+02A3A		$\triangleminus$			$\triangleminus$		<code>\triangleminus</code>	minus sign in triangle

USV	L	S	E	P	A	N	Macro	Description
U+02A3B							<code>\triangleletimes</code>	multiplication sign in triangle
U+02A3C							<code>\intprod</code>	interior product
U+02A3D							<code>\intprodr</code>	righthand interior product
U+02A3E							<code>\fcmp</code>	z notation relational composition
U+02A3F							<code>\amalg<sup>(p)</sup></code>	amalgamation or coproduct
U+02A40							<code>\capdot</code>	intersection with dot
U+02A41							<code>\uminus</code>	union with minus sign
U+02A42							<code>\barcup</code>	union with overbar
U+02A43							<code>\barcap</code>	intersection with overbar
U+02A44							<code>\capwedge</code>	intersection with logical and
U+02A45							<code>\cupvee</code>	union with logical or
U+02A46							<code>\cupovercap</code>	union above intersection
U+02A47							<code>\capovercup</code>	intersection above union
U+02A48							<code>\cupbarcap</code>	union above bar above intersection
U+02A49							<code>\capbarcup</code>	intersection above bar above union
U+02A4A							<code>\twocups</code>	union beside and joined with union
U+02A4B							<code>\twocaps</code>	intersection beside and joined with intersection
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

USV	L	S	E	P	A	N	Macro	Description
U+02A50							<code>\closedvarcupsmashprod</code>	closed union with serifs and smash product
U+02A51							<code>\wedgeeodot</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>\wedgeeonwedge</code>	two intersecting logical and
U+02A56							<code>\veeonvee</code>	two intersecting logical or
U+02A57							<code>\bigslowedvee</code>	sloping large or
U+02A58							<code>\bigslowedwedge</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<sup>(a)</sup></code>	logical and with double overbar
U+02A5F							<code>\wedgeebar</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
U+02A65							<code>\rsup</code>	z notation range antirestriction
U+02A71							<code>\eqqplus</code>	equals sign above plus sign

USV	L	S	E	P	A	N	Macro	Description
U+02A72		±			±		\pluseqq	plus sign above equals sign
U+02AF4							\interleave	triple vertical bar binary relation
U+02AF5		≡			≡		\nhVvert	triple vertical bar with horizontal stroke
U+02AF6		⋮			⋮		\threedotcolon	triple colon operator
U+02AFB		///			///		\trslash	triple solidus binary relation
U+02AFD		//			//		\sslash	double solidus operator
U+02AFE		⏏			⏏		\talloblong	white vertical bar

## 13 Ordinary symbols, \mathord

USV	L	S	E	P	A	N	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 <sup>(p)</sup>	reverse solidus
U+000A3	£	£	£	£	£		\mathsterling	pound sign
U+000A5	¥	¥	¥	¥	¥		\mathyen	yen sign
U+000A7	§	§	§	§	§	§	\mathsection	section symbol
U+000AC	¬	¬	¬	¬	¬	¬	\neg <sup>(p)</sup>	/neg /lnot not sign
U+000B6	¶	¶	¶	¶	¶		\mathparagraph	paragraph symbol
U+001B5		Ƶ	Ƶ			Ƶ	\Zbar	impedance (latin capital letter z with stroke)
U+003F6		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)














































































USV	L	S	E	P	A	N	Macro	Description
U+02032	'	'	'	'	'	'	\prime <sup>(p)</sup>	prime or minute, not superscripted
U+02033	"	"		"	"	"	\dprime	double prime or second, not superscripted
U+02034	'''	'''		'''	'''	'''	\trprime	triple prime (not superscripted)
U+02035	\	\	\	\	\	\	\backprime <sup>(a)</sup>	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	\Planckconst	planck constant
U+02127	℧	℧	℧	℧	℧	℧	\mho	conductance
U+02132		ℱ	ℱ		ℱ	ℱ	\Finv <sup>(a)</sup>	turned capital f






























USV	L	S	E	P	A	N	Macro	Description
U+0213C							<code>\Bbbpi</code>	double-struck small pi
U+02141							<code>\Game<sup>(a)</sup></code>	turned sans-serif capital g
U+02142							<code>\sansLturned</code>	turned sans-serif capital l
U+02143							<code>\sansLmirrored</code>	reversed sans-serif capital l
U+02144							<code>\Yup</code>	turned sans-serif capital y
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



























































USV	L	S	E	P	A	N	Macro	Description
U+021E1		↗	↖		↗	↖	<code>\updasharrow</code>	upwards dashed arrow
U+021E2		↘	↙		↘	↙	<code>\righdasharrow</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
U+021EA		↗			↗		<code>\whitearrowupfrombar</code>	upwards white arrow from bar
U+02200	∀	∀	∀	∀	∀	∀	<code>\forall</code> <sup>(p)</sup>	for all
U+02201	∁	∁	∁	∁	∁	∁	<code>\complement</code> <sup>(a)</sup>	complement sign
U+02203	∃	∃	∃	∃	∃	∃	<code>\exists</code> <sup>(p)</sup>	at least one exists
U+02204	∄	∄	∄	∄	∄	∄	<code>\nexists</code> <sup>(a)</sup>	negated exists
U+02205	∅	∅	∅	∅	∅	∅	<code>\varnothing</code> <sup>(a)</sup>	circle, slash
U+02206	Δ	Δ	Δ	Δ	Δ	Δ	<code>\increment</code>	laplacian (delta; nabla^2)
U+0220E	■	■	■	■	■	■	<code>\QED</code>	end of proof
U+0221A	√	√	√	√	√	√	<code>\surd</code> <sup>(p)</sup>	radical
U+0221E	∞	∞	∞	∞	∞	∞	<code>\infty</code> <sup>(p)</sup>	infinity
U+0221F	⊥	⊥	⊥	⊥	⊥	⊥	<code>\rightangle</code>	right (90 degree) angle
U+02220	∠	∠	∠	∠	∠	∠	<code>\angle</code> <sup>(p)</sup>	angle
U+02221	∡	∡	∡	∡	∡	∡	<code>\measuredangle</code> <sup>(a)</sup>	angle-measured
U+02222	∢	∢	∢	∢	∢	∢	<code>\sphericalangle</code> <sup>(a)</sup>	angle-spherical
U+02234	∴	∴	∴	∴	∴	∴	<code>\therefore</code> <sup>(a)</sup>	therefore

USV	L	S	E	P	A	N	Macro	Description
U+02235	⋈	⋉	⋊	⋋	⋌	⋍	<code>\because<sup>(a)</sup></code>	because
U+0223F	〰	〱	〲	〳	〴	〵	<code>\sinewave</code>	sine wave
U+022A4	⌞	⌟	⌠	⌡	⌢	⌣	<code>\top<sup>(p)</sup></code>	top
U+022A5	⌞	⌟	⌠	⌡	⌢	⌣	<code>\bot<sup>(p)</sup></code>	bottom
U+022B9	⌞	⌟	⌠	⌡	⌢	⌣	<code>\hermitmatrix</code>	hermitian conjugate matrix
U+022BE	⌞	⌟	⌠	⌡	⌢	⌣	<code>\measuredrightangle</code>	right angle-measured [with arc]
U+022BF	⌞	⌟	⌠	⌡	⌢	⌣	<code>\varlrtriangle</code>	right triangle
U+022EF	⋯	⋯	⋯	⋯	⋯	⋯	<code>\unicodedots</code>	three dots, centered
U+02300	⌀	⌀	⌀	⌀	⌀	⌀	<code>\diameter</code>	diameter sign
U+02302		🏠					<code>\house</code>	house
U+02310	⌞	⌟	⌠	⌡	⌢	⌣	<code>\invnot</code>	reverse not
U+02311		◻					<code>\sqlozenge</code>	square lozenge
U+02312		⤿					<code>\proffline</code>	profile of a line
U+02313		⤿					<code>\profsurf</code>	profile of a surface
U+02317		⌘					<code>\viewdata</code>	viewdata square
U+02319	⌞	⌟	⌠	⌡	⌢	⌣	<code>\turnednot</code>	turned not sign
U+02320	∫	∫	∫	∫	∫	∫	<code>\inttop</code>	top half integral
U+02321	∫	∫	∫	∫	∫	∫	<code>\intbottom</code>	bottom half integral
U+0232C		⬡					<code>\varhexagonlrbonds</code>	six carbon ring, corner down, double bonds lower right etc
U+02332		▶					<code>\conictaper</code>	conical taper
U+02336		I					<code>\topbot</code>	top and bottom

usv	L	S	E	P	A	N	Macro	Description
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
U+0239E	)	)	)	)	)	)	\rparenuend	right parenthesis upper hook
U+0239F							\rparenextender	right parenthesis extension
U+023A0	)	)	)	)	)	)	\rparenlend	right parenthesis lower hook
U+023A1	[	[	[	[	[	[	\lbrackuend	left square bracket upper corner
U+023A2							\lbrackextender	left square bracket extension
U+023A3	[	[	[	[	[	[	\lbracklend	left square bracket lower corner
U+023A4	]	]	]	]	]	]	\rbrackuend	right square bracket upper corner
U+023A5							\rbrackextender	right square bracket extension
U+023A6	]	]	]	]	]	]	\rbracklend	right square bracket lower corner
U+023A7	{	{	{	{	{	{	\lbraceuend	left curly bracket upper hook

USV	L	S	E	P	A	N	Macro	Description
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
U+023AE							<code>\intextender</code>	integral extension
U+023AF							<code>\harrowextender</code>	horizontal line extension (used to extend arrows)
U+023B2							<code>\sumtop</code>	summation top
U+023B3							<code>\sumbottom</code>	summation bottom
U+023B6							<code>\bbrktbrk</code>	bottom square bracket over top square bracket
U+023B7							<code>\sqrtbottom</code>	radical symbol bottom
U+023B8							<code>\lvboxline</code>	left vertical box line
U+023B9							<code>\rvboxline</code>	right vertical box line
U+023CE							<code>\varcarriagereturn</code>	return symbol
U+023E0							<code>\obrbrak</code>	top tortoise shell bracket (mathematical use)
U+023E1							<code>\ubrbrak</code>	bottom tortoise shell bracket (mathematical use)
U+023E2							<code>\trapezium</code>	white trapezium
U+023E3							<code>\benzenr</code>	benzene ring with circle




































USV	L	S	E	P	A	N	Macro	Description
U+023E4							<code>\strns</code>	straightness
U+023E5							<code>\fltns</code>	flatness
U+023E6							<code>\accurrent</code>	ac current
U+023E7							<code>\elinters</code>	electrical intersection
U+02422							<code>\blanksymbol</code>	blank symbol
U+02423							<code>\mathvisiblespace</code>	open box
U+02506							<code>\bdtriplevdash</code>	doubly broken vert
U+02580							<code>\blockuphalf</code>	upper half block
U+02584							<code>\blocklowhalf</code>	lower half block
U+02588							<code>\blockfull</code>	full block
U+0258C							<code>\blocklefthalf</code>	left half block
U+02590							<code>\blockrighthalf</code>	right half block
U+02591							<code>\blockqtrshaded</code>	25% shaded block
U+02592							<code>\blockhalfshaded</code>	50% shaded block
U+02593							<code>\blockthreeqtrshaded</code>	75% shaded block
U+025A0							<code>\mdlgblksquare</code>	square, filled
U+025A1							<code>\mdlgwhtsquare</code>	square, open
U+025A2							<code>\squoval</code>	white square with rounded corners
U+025A3							<code>\blackinwhitesquare</code>	white square containing black small square
U+025A4							<code>\squarehfill</code>	square, horizontal rule filled
U+025A5							<code>\squarevfill</code>	square, vertical rule filled

USV	L	S	E	P	A	N	Macro	Description
U+025A6							<code>\squarehvfill</code>	square with orthogonal crosshatch fill
U+025A7							<code>\squarenwsefill</code>	square, nw-to-se rule filled
U+025A8							<code>\squareneswfill</code>	square, ne-to-sw rule filled
U+025A9							<code>\squarecrossfill</code>	square with diagonal crosshatch fill
U+025AA							<code>\smbksquare</code>	/blacksquare - sq bullet, filled
U+025AB							<code>\smwhtsquare</code>	white small square
U+025AC							<code>\hrectangleblack</code>	black rectangle
U+025AD							<code>\hrectangle</code>	horizontal rectangle, open
U+025AE							<code>\vrectangleblack</code>	black vertical rectangle
U+025AF							<code>\vrectangle</code>	rectangle, white (vertical)
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<sup>(a)</sup></code>	up triangle, filled
U+025B6							<code>\blacktriangleright<sup>(a)</sup></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<sup>(p)</sup></code>	big down triangle, open
U+025BE							<code>\blacktriangledown<sup>(a)</sup></code>	down triangle, filled



USV	L	S	E	P	A	N	Macro	Description
U+025BF		▽	▽			▽	<code>\triangledown<sup>(a)</sup></code>	down triangle, open
U+025C0	◀	◀	◀	◀		◀	<code>\blacktriangleleft<sup>(a)</sup></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
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







































USV	L	S	E	P	A	N	Macro	Description
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>\lrbblacktriangle</code>	lower right triangle, filled
U+025E3							<code>\llbblacktriangle</code>	lower left triangle, filled
U+025E4							<code>\ulbblacktriangle</code>	upper left triangle, filled
U+025E5							<code>\urbblacktriangle</code>	upper right triangle, filled
U+025E6							<code>\smwhtcircle</code>	white bullet
U+025E7							<code>\squareleftblack</code>	square, filled left half
U+025E8							<code>\squarerightblack</code>	square, filled right half
U+025E9							<code>\squareulblack</code>	square, filled top left corner
U+025EA							<code>\squarelrblack</code>	square, filled bottom right corner
U+025EC							<code>\trianglecdot</code>	triangle with centered dot

USV	L	S	E	P	A	N	Macro	Description
U+025ED							<code>\triangleleftblack</code>	up-pointing triangle with left half black
U+025EE							<code>\trianglerightblack</code>	up-pointing triangle with right half black
U+025EF							<code>\lgwhtcircle</code>	large circle
U+025F0							<code>\squareulquad</code>	white square with upper left quadrant
U+025F1							<code>\squarellquad</code>	white square with lower left quadrant
U+025F2							<code>\squarelrquad</code>	white square with lower right quadrant
U+025F3							<code>\squareurquad</code>	white square with upper right quadrant
U+025F4							<code>\circleulquad</code>	white circle with upper left quadrant
U+025F5							<code>\circlellquad</code>	white circle with lower left quadrant
U+025F6							<code>\circlelrquad</code>	white circle with lower right quadrant
U+025F7							<code>\circleurquad</code>	white circle with upper right quadrant
U+025F8							<code>\ultriangle</code>	upper left triangle
U+025F9							<code>\urtriangle</code>	upper right triangle
U+025FA							<code>\lltriangle</code>	lower left triangle
U+025FB							<code>\mdwhtsquare</code>	white medium square
U+025FC							<code>\mdblsquare</code>	black medium square
U+025FD							<code>\mdsmwhtsquare</code>	white medium small square
U+025FE							<code>\mdsmblsquare</code>	black medium small square
U+025FF							<code>\lrtriangle</code>	lower right triangle
U+02605							<code>\bigstar<sup>(a)</sup></code>	star, filled

usv	L	S	E	P	A	N	Macro	Description
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 <sup>(p)</sup>	spades suit symbol
U+02661	♥	♥	♥	♥	♥	♥	\heartsuit <sup>(p)</sup>	heart suit symbol
U+02662	♦	♦	♦	♦	♦	♦	\diamondsuit <sup>(p)</sup>	diamond suit symbol
U+02663	♣	♣	♣	♣	♣	♣	\clubsuit <sup>(p)</sup>	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)
U+0266A	♪	♪		♪	♪		\eighthnote	eighth note
U+0266B		🎵					\twonotes	beamed eighth notes
U+0266D	♭	♭	♭	♭	♭	♭	\flat <sup>(p)</sup>	musical flat
U+0266E	♮	♮	♮	♮	♮	♮	\natural <sup>(p)</sup>	music natural


USV	L	S	E	P	A	N	Macro	Description
U+0266F	♯	♯	♯	♯	♯	♯	\sharp <sup>(p)</sup>	musical sharp
U+0267E		∞					\acidfree	permanent paper sign
U+02680		▢					\dicei	die face-1
U+02681		▢					\diceii	die face-2
U+02682		▢					\diceiii	die face-3
U+02683		▢					\diceiv	die face-4
U+02684		▢					\dicev	die face-5
U+02685		▢					\dicevi	die face-6
U+02686		◯					\circledrightdot	white circle with dot right
U+02687		◯					\circledtwodots	white circle with two dots
U+02688		●					\blackcircledrightdot	black circle with white dot right
U+02689		●					\blackcircledtwodots	black circle with two white dots
U+026A5		♂					\Hermaphrodite	male and female sign
U+026AA		◯	◯			◯	\mdwhtcircle	medium white circle
U+026AB		●	●			●	\mdblkcircle	medium black circle
U+026AC		◯	◯			◯	\mdsmwhtcircle	medium small white circle
U+026B2		♀					\neuter	neuter
U+02713	✓	✓	✓	✓	✓	✓	\checkmark	tick, check mark
U+02720	✠	✠	✠	✠	✠	✠	\maltese	maltese cross
U+0272A		★					\circledstar	circled white star
U+02736		✳					\varstar	six pointed black star
U+0273D		✳					\dingasterisk	heavy teardrop-spoked asterisk

USV	L	S	E	P	A	N	Macro	Description
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	L	S	E	P	A	N	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>\measangleluttonw</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

USV	L	S	E	P	A	N	Macro	Description
U+029AE							<code>\measangledrtose</code>	measured angle with open arm ending in arrow pointing right and down
U+029AF							<code>\measangledltosw</code>	measured angle with open arm ending in arrow pointing left and down
U+029B0							<code>\reemptyset</code>	reversed empty set
U+029B1							<code>\emptysetto\bar</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>\uparrowoncircle</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



USV	L	S	E	P	A	N	Macro	Description
U+029DC							<code>\iinf</code>	incomplete infinity
U+029DD							<code>\tieinf</code>	tie over infinity
U+029DE							<code>\nvinfty</code>	infinity negated with vertical bar
U+029E0							<code>\laplac</code>	square with contoured outline
U+029E7							<code>\thermod</code>	thermodynamic
U+029E8							<code>\downtriangleleftblack</code>	down-pointing triangle with left half black
U+029E9							<code>\downtrianglerightblack</code>	down-pointing triangle with right half black
U+029EA							<code>\blackdiamonddownarrow</code>	black diamond with down arrow
U+029EC							<code>\circledownarrow</code>	white circle with down arrow
U+029ED							<code>\blackcircledownarrow</code>	black circle with down arrow
U+029EE							<code>\errbarsquare</code>	error-barred white square
U+029EF							<code>\errbarblacksquare</code>	error-barred black square
U+029F0							<code>\errbardiamond</code>	error-barred white diamond
U+029F1							<code>\errbarblackdiamond</code>	error-barred black diamond
U+029F2							<code>\errbarcircle</code>	error-barred white circle
U+029F3							<code>\errbarblackcircle</code>	error-barred black circle
U+02AE1							<code>\perps</code>	perpendicular with s
U+02AF1							<code>\topcir</code>	down tack with circle below
U+02B12							<code>\squaretopblack</code>	square with top half black
U+02B13							<code>\squarebotblack</code>	square with bottom half black
U+02B14							<code>\squareurblack</code>	square with upper right diagonal half black

USV	L	S	E	P	A	N	Macro	Description
U+02B15							<code>\squarellblack</code>	square with lower left diagonal half black
U+02B16							<code>\diamondleftblack</code>	diamond with left half black
U+02B17							<code>\diamondrightblack</code>	diamond with right half black
U+02B18							<code>\diamondtopblack</code>	diamond with top half black
U+02B19							<code>\diamondbotblack</code>	diamond with bottom half black
U+02B1A							<code>\dottedsquare</code>	dotted square
U+02B1B							<code>\lgblksquare</code>	black large square
U+02B1C							<code>\lgwhtsquare</code>	white large square
U+02B1D							<code>\vysmblksquare</code>	black very small square
U+02B1E							<code>\vysmwhtsquare</code>	white very small square
U+02B1F							<code>\pentagonblack</code>	black pentagon
U+02B20							<code>\pentagon</code>	white pentagon
U+02B21							<code>\varhexagon</code>	white hexagon
U+02B22							<code>\varhexagonblack</code>	black hexagon
U+02B23							<code>\hexagonblack</code>	horizontal black hexagon
U+02B24							<code>\lgblkcicle</code>	black large circle
U+02B25							<code>\mdblkdiamond</code>	black medium diamond
U+02B26							<code>\mdwhtdiamond</code>	white medium diamond
U+02B27							<code>\mdblklozenge</code>	black medium lozenge
U+02B28							<code>\mdwhtlozenge</code>	white medium lozenge
U+02B29							<code>\smbldiamond</code>	black small diamond
U+02B2A							<code>\smbclklozenge</code>	black small lozenge

USV	L	S	E	P	A	N	Macro	Description
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
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	\mbfzero	mathematical bold digit 0
U+1D7CF	1	1	1	1	1	1	\mbfone	mathematical bold digit 1
U+1D7D0	2	2	2	2	2	2	\mbftwo	mathematical bold digit 2
U+1D7D1	3	3	3	3	3	3	\mbfthree	mathematical bold digit 3
U+1D7D2	4	4	4	4	4	4	\mbffour	mathematical bold digit 4
U+1D7D3	5	5	5	5	5	5	\mbffive	mathematical bold digit 5
U+1D7D4	6	6	6	6	6	6	\mbfsix	mathematical bold digit 6
U+1D7D5	7	7	7	7	7	7	\mbfseven	mathematical bold digit 7
U+1D7D6	8	8	8	8	8	8	\mbfeight	mathematical bold digit 8
U+1D7D7	9	9	9	9	9	9	\mbfnine	mathematical bold digit 9

USV	L	S	E	P	A	N	Macro	Description
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
U+1D7E0	8	8	8	8	8	8	\Bbbeight	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		\msanszero	mathematical sans-serif digit 0
U+1D7E3	1	1	1	1	1		\msansone	mathematical sans-serif digit 1
U+1D7E4	2	2	2	2	2		\msanstwo	mathematical sans-serif digit 2
U+1D7E5	3	3	3	3	3		\msanstthree	mathematical sans-serif digit 3
U+1D7E6	4	4	4	4	4		\msansfour	mathematical sans-serif digit 4
U+1D7E7	5	5	5	5	5		\msansfive	mathematical sans-serif digit 5
U+1D7E8	6	6	6	6	6		\msanssix	mathematical sans-serif digit 6
U+1D7E9	7	7	7	7	7		\msansseven	mathematical sans-serif digit 7
U+1D7EA	8	8	8	8	8		\msanseight	mathematical sans-serif digit 8
U+1D7EB	9	9	9	9	9		\msansnine	mathematical sans-serif digit 9

USV	L	S	E	P	A	N	Macro	Description
U+1D7EC	0	0	0	0	0		\mbfsanszero	mathematical sans-serif bold digit 0
U+1D7ED	1	1	1	1	1		\mbfsansone	mathematical sans-serif bold digit 1
U+1D7EE	2	2	2	2	2		\mbfsanstwo	mathematical sans-serif bold digit 2
U+1D7EF	3	3	3	3	3		\mbfsansthree	mathematical sans-serif bold digit 3
U+1D7F0	4	4	4	4	4		\mbfsansfour	mathematical sans-serif bold digit 4
U+1D7F1	5	5	5	5	5		\mbfsansfive	mathematical sans-serif bold digit 5
U+1D7F2	6	6	6	6	6		\mbfsanssix	mathematical sans-serif bold digit 6
U+1D7F3	7	7	7	7	7		\mbfsansseven	mathematical sans-serif bold digit 7
U+1D7F4	8	8	8	8	8		\mbfsanseight	mathematical sans-serif bold digit 8
U+1D7F5	9	9	9	9	9		\mbfsansnine	mathematical sans-serif bold digit 9
U+1D7F6	0	0	0	0	0		\mttzero	mathematical monospace digit 0
U+1D7F7	1	1	1	1	1		\mttone	mathematical monospace digit 1
U+1D7F8	2	2	2	2	2		\mtttwo	mathematical monospace digit 2
U+1D7F9	3	3	3	3	3		\mttthree	mathematical monospace digit 3
U+1D7FA	4	4	4	4	4		\mttfour	mathematical monospace digit 4
U+1D7FB	5	5	5	5	5		\mttfive	mathematical monospace digit 5
U+1D7FC	6	6	6	6	6		\mttsix	mathematical monospace digit 6
U+1D7FD	7	7	7	7	7		\mttseven	mathematical monospace digit 7

USV	L	S	E	P	A	N	Macro	Description
U+1D7FE	8	8	8	8	8		<code>\mtteight</code>	mathematical monospace digit 8
U+1D7FF	9	9	9	9	9		<code>\mttnine</code>	mathematical monospace digit 9

## 14 Relation symbols, `\mathrel`

usv	L	S	E	P	A	N	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<sup>(p)</sup></code>	<code>/leftarrow</code> /gets a: leftward arrow
U+02191	↑	↑	↑	↑	↑	↑	<code>\uparrow<sup>(p)</sup></code>	upward arrow
U+02192	→	→	→	→	→	→	<code>\rightarrow<sup>(p)</sup></code>	<code>/rightarrow</code> /to a: rightward arrow
U+02193	↓	↓	↓	↓	↓	↓	<code>\downarrow<sup>(p)</sup></code>	downward arrow
U+02194	↔	↔	↔	↔	↔	↔	<code>\leftrightarrow<sup>(p)</sup></code>	left and right arrow
U+02195	↕	↕	↕	↕	↕	↕	<code>\updownarrow<sup>(p)</sup></code>	up and down arrow
U+02196	↖	↖	↖	↖	↖	↖	<code>\nwarrow<sup>(p)</sup></code>	nw pointing arrow
U+02197	↗	↗	↗	↗	↗	↗	<code>\nearrow<sup>(p)</sup></code>	ne pointing arrow
U+02198	↘	↘	↘	↘	↘	↘	<code>\searrow<sup>(p)</sup></code>	se pointing arrow
U+02199	↙	↙	↙	↙	↙	↙	<code>\swarrow<sup>(p)</sup></code>	sw pointing arrow
U+0219A	↮	↮	↮	↮	↮	↮	<code>\nleftarrow<sup>(a)</sup></code>	not left arrow
U+0219B	↗̸	↗̸	↗̸	↗̸	↗̸	↗̸	<code>\nrightarrow<sup>(a)</sup></code>	not right arrow
U+0219C		↪̃			↪̃		<code>\leftwvearrow</code>	left arrow-wavy
U+0219D		↩̃			↩̃		<code>\rightwvearrow</code>	right arrow-wavy
U+0219E	↔↔	↔↔	↔↔	↔↔	↔↔	↔↔	<code>\twoheadleftarrow<sup>(a)</sup></code>	left two-headed arrow
U+0219F	↕↕	↕↕	↕↕	↕↕	↕↕	↕↕	<code>\twoheaduparrow</code>	up two-headed arrow
U+021A0	↗↗	↗↗	↗↗	↗↗	↗↗	↗↗	<code>\twoheadrightarrow<sup>(a)</sup></code>	right two-headed arrow

USV	L	S	E	P	A	N	Macro	Description
U+021A1	↕	↕	↕	↕	↕	↕	<code>\twoheaddownarrow</code>	down two-headed arrow
U+021A2	↵	↵	↵	↵	↵	↵	<code>\leftarrowtail<sup>(a)</sup></code>	left arrow-tailed
U+021A3	↶	↶	↶	↶	↶	↶	<code>\rightarrowtail<sup>(a)</sup></code>	right arrow-tailed
U+021A4	↤	↤	↤	↤	↤	↤	<code>\mapsfrom</code>	maps to, leftward
U+021A5	↥	↥	↥	↥	↥	↥	<code>\mapsup</code>	maps to, upward
U+021A6	↦	↦	↦	↦	↦	↦	<code>\mapsto<sup>(p)</sup></code>	maps to, rightward
U+021A7	↧	↧	↧	↧	↧	↧	<code>\mapsdown</code>	maps to, downward
U+021A9	↩	↩	↩	↩	↩	↩	<code>\hookleftarrow<sup>(p)</sup></code>	left arrow-hooked
U+021AA	↪	↪	↪	↪	↪	↪	<code>\hookrightarrow<sup>(p)</sup></code>	right arrow-hooked
U+021AB	↬	↬	↬	↬	↬	↬	<code>\looparrowleft<sup>(a)</sup></code>	left arrow-looped
U+021AC	↭	↭	↭	↭	↭	↭	<code>\looparrowright<sup>(a)</sup></code>	right arrow-looped
U+021AD	↲	↲	↲	↲	↲	↲	<code>\leftrightsquigarrow<sup>(a)</sup></code>	left and right arr-wavy
U+021AE	↷	↷	↷	↷	↷	↷	<code>\nleftarrow<sup>(a)</sup></code>	not left and right arrow
U+021AF		↱			↱		<code>\downzigzagarrow</code>	downwards zigzag arrow
U+021B0	↰	↰	↰	↰	↰	↰	<code>\Lsh<sup>(a)</sup></code>	/lsh a:
U+021B1	↱	↱	↱	↱	↱	↱	<code>\Rsh<sup>(a)</sup></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<sup>(a)</sup></code>	left curved arrow
U+021B7	↷	↷	↷	↷	↷	↷	<code>\curvearrowright<sup>(a)</sup></code>	right curved arrow
U+021BC	↵	↵	↵	↵	↵	↵	<code>\leftharpoonup<sup>(p)</sup></code>	left harpoon-up
U+021BD	↶	↶	↶	↶	↶	↶	<code>\leftharpoondown<sup>(p)</sup></code>	left harpoon-down



USV	L	S	E	P	A	N	Macro	Description
U+021BE	↗	↖	↗	↖	↗	↖	<code>\upharpoonright<sup>(a)</sup></code>	<code>/upharpoonright</code> /restriction a: up harpoon-right
U+021BF	↘	↙	↘	↙	↘	↙	<code>\upharpoonleft<sup>(a)</sup></code>	up harpoon-left
U+021C0	↗	↖	↗	↖	↗	↖	<code>\rightharpoonup<sup>(p)</sup></code>	right harpoon-up
U+021C1	↘	↙	↘	↙	↘	↙	<code>\rightharpoondown<sup>(p)</sup></code>	right harpoon-down
U+021C2	↘	↙	↘	↙	↘	↙	<code>\downharpoonright<sup>(a)</sup></code>	down harpoon-right
U+021C3	↘	↙	↘	↙	↘	↙	<code>\downharpoonleft<sup>(a)</sup></code>	down harpoon-left
U+021C4	↗↘	↖↙	↗↘	↖↙	↗↘	↖↙	<code>\rightleftarrows<sup>(a)</sup></code>	right arrow over left arrow
U+021C5	↕	↕	↕	↕	↕	↕	<code>\updownarrows</code>	up arrow, down arrow
U+021C6	↗↘	↖↙	↗↘	↖↙	↗↘	↖↙	<code>\leftrightarrows<sup>(a)</sup></code>	left arrow over right arrow
U+021C7	↖↖	↖↖	↖↖	↖↖	↖↖	↖↖	<code>\leftleftarrows<sup>(a)</sup></code>	two left arrows
U+021C8	↗↗	↗↗	↗↗	↗↗	↗↗	↗↗	<code>\upuparrows<sup>(a)</sup></code>	two up arrows
U+021C9	↘↘	↘↘	↘↘	↘↘	↘↘	↘↘	<code>\rightrightarrows<sup>(a)</sup></code>	two right arrows
U+021CA	↙↙	↙↙	↙↙	↙↙	↙↙	↙↙	<code>\downdownarrows<sup>(a)</sup></code>	two down arrows
U+021CB	↗↘	↖↙	↗↘	↖↙	↗↘	↖↙	<code>\leftrightharpoons<sup>(a)</sup></code>	left harpoon over right
U+021CC	↘↗	↙↖	↘↗	↙↖	↘↗	↙↖	<code>\rightleftharpoons<sup>(l)</sup></code>	right harpoon over left
U+021CD	↗↘	↖↙	↗↘	↖↙	↗↘	↖↙	<code>\nLeftarrow<sup>(a)</sup></code>	not implied by
U+021CE	↗↘	↖↙	↗↘	↖↙	↗↘	↖↙	<code>\nLefttrightarrow<sup>(a)</sup></code>	not left and right double arrows
U+021CF	↗↘	↖↙	↗↘	↖↙	↗↘	↖↙	<code>\nRightarrow<sup>(a)</sup></code>	not implies
U+021D0	↖↖	↖↖	↖↖	↖↖	↖↖	↖↖	<code>\Leftarrow<sup>(p)</sup></code>	is implied by
U+021D1	↗↗	↗↗	↗↗	↗↗	↗↗	↗↗	<code>\Uparrow<sup>(p)</sup></code>	up double arrow
U+021D2	↘↘	↘↘	↘↘	↘↘	↘↘	↘↘	<code>\Rightarrow<sup>(p)</sup></code>	implies
U+021D3	↙↙	↙↙	↙↙	↙↙	↙↙	↙↙	<code>\Downarrow<sup>(p)</sup></code>	down double arrow

USV	L	S	E	P	A	N	Macro	Description
U+021D4	↔	↔	↔	↔	↔	↔	<code>\Leftrightarrow<sup>(p)</sup></code>	left and right double arrow
U+021D5	↕	↕	↕	↕	↕	↕	<code>\Updownarrow<sup>(p)</sup></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
U+021D9	↙	↙	↙	↙	↙	↙	<code>\Swarrow</code>	sw pointing double arrow
U+021DA	⇐	⇐	⇐	⇐	⇐	⇐	<code>\Lleftarrow<sup>(a)</sup></code>	left triple arrow
U+021DB	⇒	⇒	⇒	⇒	⇒	⇒	<code>\Rrightarrow<sup>(a)</sup></code>	right triple arrow
U+021DC	↪	↪	↪	↪	↪	↪	<code>\leftsquigarrow</code>	leftwards squiggle arrow
U+021DD	↩	↩	↩	↩	↩	↩	<code>\rightsquigarrow<sup>(a)</sup></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>\nvleftarrow</code>	leftwards arrow with vertical stroke
U+021F8		→			→		<code>\nvrightarrow</code>	rightwards arrow with vertical stroke
U+021F9		↔			↔		<code>\nvleftrightharrow</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>\nVleftrightharrow</code>	left right arrow with double vertical stroke

USV	L	S	E	P	A	N	Macro	Description
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<sup>(p)</sup></code>	set membership, variant
U+02209	∉	∉	∉	∉	∉	∉	<code>\notin<sup>(l)</sup></code>	negated set membership
U+0220A	∈	∈	∈	∈	∈	∈	<code>\smallin</code>	set membership (small set membership)
U+0220B	⊃	⊃	⊃	⊃	⊃	⊃	<code>\ni<sup>(p)</sup></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<sup>(p)</sup></code>	is proportional to
U+02223							<code>\mid<sup>(p)</sup></code>	/mid r:
U+02224	⧻	⧻	⧻	⧻	⧻	⧻	<code>\nmid<sup>(a)</sup></code>	negated mid
U+02225							<code>\parallel<sup>(p)</sup></code>	parallel
U+02226	⧻	⧻	⧻	⧻	⧻	⧻	<code>\nparallel<sup>(a)</sup></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<sup>(p)</sup></code>	similar
U+0223D	↯	↯	↯	↯	↯	↯	<code>\backsim<sup>(a)</sup></code>	reverse similar
U+02241	⋈	⋈	⋈	⋈	⋈	⋈	<code>\nsim<sup>(a)</sup></code>	not similar

usv	L	S	E	P	A	N	Macro	Description
U+02242	$\approx$	$\approx$	$\approx$	$\approx$	$\approx$	$\approx$	$\backslash eqsim^{(a)}$	equals, similar
U+02243	$\approx$	$\approx$	$\approx$	$\approx$	$\approx$	$\approx$	$\backslash simeq^{(p)}$	similar, equals
U+02244	$\napprox$	$\napprox$	$\napprox$	$\napprox$	$\napprox$	$\napprox$	$\backslash nsime$	not similar, equals
U+02243	$\approx$	$\approx$	$\approx$	$\approx$	$\approx$	$\approx$	$\backslash sime$	similar, equals (alias)
U+02244	$\napprox$	$\napprox$	$\napprox$	$\napprox$	$\napprox$	$\napprox$	$\backslash nsimeq$	not similar, equals (alias)
U+02245	$\cong$	$\cong$	$\cong$	$\cong$	$\cong$	$\cong$	$\backslash cong^{(l)}$	congruent with
U+02246	$\ncong$	$\ncong$	$\ncong$	$\ncong$	$\ncong$	$\ncong$	$\backslash simneqq$	similar, not equals [vert only for 9573 entity]
U+02247	$\ncong$	$\ncong$	$\ncong$	$\ncong$	$\ncong$	$\ncong$	$\backslash ncong^{(a)}$	not congruent with
U+02248	$\approx$	$\approx$	$\approx$	$\approx$	$\approx$	$\approx$	$\backslash approx^{(p)}$	approximate
U+02249	$\napprox$	$\napprox$	$\napprox$	$\napprox$	$\napprox$	$\napprox$	$\backslash napprox$	not approximate
U+0224A	$\approx$	$\approx$	$\approx$	$\approx$	$\approx$	$\approx$	$\backslash approxeq^{(a)}$	approximate, equals
U+0224B	$\approx$	$\approx$	$\approx$	$\approx$	$\approx$	$\approx$	$\backslash approxident$	approximately identical to
U+0224C	$\equiv$	$\equiv$	$\equiv$	$\equiv$	$\equiv$	$\equiv$	$\backslash backcong$	all equal to
U+0224D	$\asymp$	$\asymp$	$\asymp$	$\asymp$	$\asymp$	$\asymp$	$\backslash asymp^{(p)}$	asymptotically equal to
U+0224E	$\bumpeq$	$\bumpeq$	$\bumpeq$	$\bumpeq$	$\bumpeq$	$\bumpeq$	$\backslash Bumpeq^{(a)}$	bumpy equals
U+0224F	$\bumpeq$	$\bumpeq$	$\bumpeq$	$\bumpeq$	$\bumpeq$	$\bumpeq$	$\backslash bumpeq^{(a)}$	bumpy equals, equals
U+02250	$\doteq$	$\doteq$	$\doteq$	$\doteq$	$\doteq$	$\doteq$	$\backslash doteq^{(l)}$	equals, single dot above
U+02251	$\doteq$	$\doteq$	$\doteq$	$\doteq$	$\doteq$	$\doteq$	$\backslash Doteq^{(a)}$	/doteqdot /doteq r: equals, even dots
U+02252	$\fallingdotseq$	$\fallingdotseq$	$\fallingdotseq$	$\fallingdotseq$	$\fallingdotseq$	$\fallingdotseq$	$\backslash fallingdotseq^{(a)}$	equals, falling dots
U+02253	$\risingdotseq$	$\risingdotseq$	$\risingdotseq$	$\risingdotseq$	$\risingdotseq$	$\risingdotseq$	$\backslash risingdotseq^{(a)}$	equals, rising dots
U+02254	$\coloneq$	$\coloneq$	$\coloneq$	$\coloneq$	$\coloneq$	$\coloneq$	$\backslash coloneq$	colon, equals
U+02255	$\eqcolon$	$\eqcolon$	$\eqcolon$	$\eqcolon$	$\eqcolon$	$\eqcolon$	$\backslash eqcolon$	equals, colon

usv	L	S	E	P	A	N	Macro	Description
U+02256							<code>\eqcirc<sup>(a)</sup></code>	circle on equals sign
U+02257							<code>\circeq<sup>(a)</sup></code>	circle, equals
U+02258							<code>\arceq</code>	arc, equals; corresponds to
U+02259							<code>\wedgeeq</code>	corresponds to (wedge, equals)
U+0225A							<code>\veeeq</code>	logical or, equals
U+0225B							<code>\stareq</code>	star equals
U+0225C							<code>\triangleq<sup>(a)</sup></code>	triangle, equals
U+0225D							<code>\eqdef</code>	equals by definition
U+0225E							<code>\measeq</code>	measured by (m over equals)
U+0225F							<code>\questeq</code>	equal with questionmark
U+02260							<code>\ne<sup>(p)</sup></code>	/ne /neq r: not equal
U+02261							<code>\equiv<sup>(p)</sup></code>	identical with
U+02262							<code>\nequiv</code>	not identical with
U+02263							<code>\Equiv</code>	strict equivalence (4 lines)
U+02264							<code>\leq<sup>(p)</sup></code>	/leq /le r: less-than-or-equal
U+02265							<code>\geq<sup>(p)</sup></code>	/geq /ge r: greater-than-or-equal
U+02266							<code>\leqq<sup>(a)</sup></code>	less, double equals
U+02267							<code>\geqq<sup>(a)</sup></code>	greater, double equals
U+02268							<code>\lneqq<sup>(a)</sup></code>	less, not double equals
U+02269							<code>\gneqq<sup>(a)</sup></code>	greater, not double equals
U+0226A							<code>\ll<sup>(p)</sup></code>	much less than, type 2
U+0226B							<code>\gg<sup>(p)</sup></code>	much greater than, type 2

























































usv	L	S	E	P	A	N	Macro	Description
U+0226C	↯	↰	↯	↰	↰	↯	<code>\between<sup>(a)</sup></code>	between
U+0226D	↯	↰	↯	↰	↰	↯	<code>\nasymp</code>	not asymptotically equal to
U+0226E	↯	↰	↯	↰	↰	↯	<code>\nless<sup>(a)</sup></code>	not less-than
U+0226F	↯	↰	↯	↰	↰	↯	<code>\ngtr<sup>(a)</sup></code>	not greater-than
U+02270	↯	↰	↯	↰	↰	↯	<code>\nleq<sup>(a)</sup></code>	not less-than-or-equal
U+02271	↯	↰	↯	↰	↰	↯	<code>\ngeq<sup>(a)</sup></code>	not greater-than-or-equal
U+02272	↯	↰	↯	↰	↰	↯	<code>\lesssim<sup>(a)</sup></code>	less, similar
U+02273	↯	↰	↯	↰	↰	↯	<code>\gtrsim<sup>(a)</sup></code>	greater, similar
U+02274	↯	↰	↯	↰	↰	↯	<code>\nlesssim</code>	not less, similar
U+02275	↯	↰	↯	↰	↰	↯	<code>\ngtrsim</code>	not greater, similar
U+02276	↯	↰	↯	↰	↰	↯	<code>\lessgtr<sup>(a)</sup></code>	less, greater
U+02277	↯	↰	↯	↰	↰	↯	<code>\gtrless<sup>(a)</sup></code>	greater, less
U+02278	↯	↰	↯	↰	↰	↯	<code>\nlessgtr</code>	not less, greater
U+02279	↯	↰	↯	↰	↰	↯	<code>\ngtrless</code>	not greater, less
U+0227A	↯	↰	↯	↰	↰	↯	<code>\prec<sup>(p)</sup></code>	precedes
U+0227B	↯	↰	↯	↰	↰	↯	<code>\succ<sup>(p)</sup></code>	succeeds
U+0227C	↯	↰	↯	↰	↰	↯	<code>\preccurlyeq<sup>(a)</sup></code>	precedes, curly equals
U+0227D	↯	↰	↯	↰	↰	↯	<code>\succcurlyeq<sup>(a)</sup></code>	succeeds, curly equals
U+0227E	↯	↰	↯	↰	↰	↯	<code>\precsim<sup>(a)</sup></code>	precedes, similar
U+0227F	↯	↰	↯	↰	↰	↯	<code>\succsim<sup>(a)</sup></code>	succeeds, similar
U+02280	↯	↰	↯	↰	↰	↯	<code>\nprec<sup>(a)</sup></code>	not precedes
U+02281	↯	↰	↯	↰	↰	↯	<code>\nsucc<sup>(a)</sup></code>	not succeeds

usv	L	S	E	P	A	N	Macro	Description
U+02282	⊂	⊆	⊃	⊇	⊈	⊉	<code>\subset<sup>(p)</sup></code>	subset or is implied by
U+02283	⊃	⊇	⊄	⊈	⊉	⊊	<code>\supset<sup>(p)</sup></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<sup>(p)</sup></code>	subset, equals
U+02287	⊇	⊇	⊇	⊇	⊈	⊉	<code>\supseteq<sup>(p)</sup></code>	superset, equals
U+02288	⊈	⊇	⊈	⊈	⊉	⊊	<code>\nsubseteq<sup>(a)</sup></code>	not subset, equals
U+02289	⊈	⊇	⊈	⊈	⊉	⊊	<code>\nsupseteq<sup>(a)</sup></code>	not superset, equals
U+0228A	⊈	⊇	⊈	⊈	⊉	⊊	<code>\subsetneq<sup>(a)</sup></code>	subset, not equals
U+0228B	⊈	⊇	⊈	⊈	⊉	⊊	<code>\supsetneq<sup>(a)</sup></code>	superset, not equals
U+0228F	⊐	⊑	⊒	⊓	⊔	⊕	<code>\sqsubset</code>	square subset
U+02290	⊐	⊑	⊒	⊓	⊔	⊕	<code>\sqsupset</code>	square superset
U+02291	⊑	⊑	⊒	⊓	⊔	⊕	<code>\sqsubseteq<sup>(p)</sup></code>	square subset, equals
U+02292	⊑	⊑	⊒	⊓	⊔	⊕	<code>\sqsupseteq<sup>(p)</sup></code>	square superset, equals
U+022A2	⊢	⊣	⊤	⊥	⊦	⊧	<code>\vdash<sup>(p)</sup></code>	vertical, dash
U+022A3	⊣	⊣	⊤	⊥	⊦	⊧	<code>\dashv<sup>(p)</sup></code>	dash, vertical
U+022A6	⊢	⊣	⊤	⊥	⊦	⊧	<code>\assert</code>	assertion (vertical, short dash)
U+022A7	⊢	⊣	⊤	⊥	⊦	⊧	<code>\models<sup>(p)</sup></code>	models (vertical, short double dash)
U+022A8	⊢	⊣	⊤	⊥	⊦	⊧	<code>\vDash<sup>(a)</sup></code>	vertical, double dash
U+022A9	⊢	⊣	⊤	⊥	⊦	⊧	<code>\Vdash<sup>(a)</sup></code>	double vertical, dash
U+022AA	⊢	⊣	⊤	⊥	⊦	⊧	<code>\Vvdash<sup>(a)</sup></code>	triple vertical, dash
U+022AB	⊢	⊣	⊤	⊥	⊦	⊧	<code>\VDash</code>	double vert, double dash

USV	L	S	E	P	A	N	Macro	Description
U+022AC							<code>\nvdash<sup>(a)</sup></code>	not vertical, dash
U+022AD							<code>\nvDash<sup>(a)</sup></code>	not vertical, double dash
U+022AE							<code>\nVdash<sup>(a)</sup></code>	not double vertical, dash
U+022AF							<code>\nVDash<sup>(a)</sup></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<sup>(a)</sup></code>	left triangle, open, variant
U+022B3							<code>\vartriangleright<sup>(a)</sup></code>	right triangle, open, variant
U+022B4							<code>\trianglelefteq<sup>(a)</sup></code>	left triangle, equals
U+022B5							<code>\trianglerighteq<sup>(a)</sup></code>	right triangle, equals
U+022B6							<code>\origof</code>	original of
U+022B7							<code>\imageof</code>	image of
U+022B8							<code>\multimap<sup>(a)</sup></code>	/multimap a:
U+022C8							<code>\bowtie<sup>(p)</sup></code>	bowtie
U+022CD							<code>\backsimeq<sup>(a)</sup></code>	reverse similar, equals
U+022D0							<code>\Subset<sup>(a)</sup></code>	double subset
U+022D1							<code>\Supset<sup>(a)</sup></code>	double superset
U+022D4							<code>\pitchfork<sup>(a)</sup></code>	pitchfork
U+022D5							<code>\equalparallel</code>	parallel, equal; equal or parallel
U+022D6							<code>\lessdot<sup>(a)</sup></code>	less than, with dot
U+022D7							<code>\gtrdot<sup>(a)</sup></code>	greater than, with dot
U+022D8							<code>\lll<sup>(a)</sup></code>	/ll /lll /lless r: triple less-than









































USV	L	S	E	P	A	N	Macro	Description
U+022D9	➤	➤	➤	➤	➤	➤	<code>\ggg<sup>(a)</sup></code>	<code>/ggg /gg /gggtr</code> r: triple greater-than
U+022DA	➤	➤	➤	➤	➤	➤	<code>\lesseqgtr<sup>(a)</sup></code>	less, equals, greater
U+022DB	➤	➤	➤	➤	➤	➤	<code>\gtreqless<sup>(a)</sup></code>	greater, equals, less
U+022DC	➤	➤	➤	➤	➤	➤	<code>\eqless</code>	equal-or-less
U+022DD	➤	➤	➤	➤	➤	➤	<code>\eqgtr</code>	equal-or-greater
U+022DE	➤	➤	➤	➤	➤	➤	<code>\curlyeqprec<sup>(a)</sup></code>	curly equals, precedes
U+022DF	➤	➤	➤	➤	➤	➤	<code>\curlyeqsucc<sup>(a)</sup></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
U+022E5	➤	➤	➤	➤	➤	➤	<code>\sqsupsetneq</code>	square superset, not equals
U+022E6	➤	➤	➤	➤	➤	➤	<code>\lnsim<sup>(a)</sup></code>	less, not similar
U+022E7	➤	➤	➤	➤	➤	➤	<code>\gnsim<sup>(a)</sup></code>	greater, not similar
U+022E8	➤	➤	➤	➤	➤	➤	<code>\precnsim<sup>(a)</sup></code>	precedes, not similar
U+022E9	➤	➤	➤	➤	➤	➤	<code>\succnsim<sup>(a)</sup></code>	succeeds, not similar
U+022EA	➤	➤	➤	➤	➤	➤	<code>\nvartriangleleft</code>	not left triangle
U+022EB	➤	➤	➤	➤	➤	➤	<code>\nvartriangleright</code>	not right triangle
U+022EC	➤	➤	➤	➤	➤	➤	<code>\ntrianglelefteq<sup>(a)</sup></code>	not left triangle, equals
U+022ED	➤	➤	➤	➤	➤	➤	<code>\ntrianglerighteq<sup>(a)</sup></code>	not right triangle, equals
U+022EE	⋮	⋮	⋮	⋮	⋮	⋮	<code>\vdots<sup>(p)</sup></code>	vertical ellipsis





































USV	L	S	E	P	A	N	Macro	Description
U+022F0							<code>\adots</code>	three dots, ascending
U+022F1							<code>\ddots<sup>(p)</sup></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
U+022FC							<code>\nis</code>	small contains with vertical bar at end of horizontal stroke
U+022FD							<code>\varniobar</code>	contains with overbar
U+022FE							<code>\niobar</code>	small contains with overbar
U+022FF							<code>\bagmember</code>	z notation bag membership
U+02322							<code>\frown<sup>(p)</sup></code>	down curve
U+02323							<code>\smile<sup>(p)</sup></code>	up curve
U+0233F							<code>\APLnotslash</code>	solidus, bar through (apl functional symbol slash bar)
U+025B5							<code>\vartriangle<sup>(a)</sup></code>	/triangle - up triangle, open

USV	L	S	E	P	A	N	Macro	Description
U+027C2	⊥	⊥	⊥	⊥	⊥	⊥	<code>\perp<sup>(p)</sup></code>	perpendicular
U+027C8		↯			↯		<code>\bsolhsb</code>	reverse solidus preceding sub-set
U+027C9		⊃/			⊃/		<code>\suphsol</code>	superset preceding solidus
U+027D2		↯			↯		<code>\upin</code>	element of opening upwards
U+027D3		┘			┘		<code>\pullback</code>	lower right corner with dot
U+027D4		└̣			└̣		<code>\pushout</code>	upper left corner with dot
U+027DA	⌞	⌞	⌞	⌞	⌞	⌞	<code>\DashVDash</code>	left and right double turnstile
U+027DB	⌞	⌞	⌞	⌞	⌞	⌞	<code>\dashVdash</code>	left and right tack
U+027DC	⌞	⌞	⌞	⌞	⌞	⌞	<code>\multimapinv</code>	left multimap
U+027DD	⌞	⌞	⌞	⌞	⌞	⌞	<code>\vlongdash</code>	long left tack
U+027DE	⌞	⌞	⌞	⌞	⌞	⌞	<code>\longdashv</code>	long right tack
U+027DF		⌞			⌞		<code>\cirbot</code>	up tack with circle above
U+027F0		↯			↯		<code>\UUparrow</code>	upwards quadruple arrow
U+027F1		↯			↯		<code>\DDownarrow</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<sup>(p)</sup></code>	long leftwards arrow
U+027F6	→	→	→	→	→	→	<code>\longrightarrow<sup>(p)</sup></code>	long rightwards arrow
U+027F7	↔	↔	↔	↔	↔	↔	<code>\longleftrightarrow<sup>(p)</sup></code>	long left right arrow
U+027F8	⇐	⇐	⇐	⇐	⇐	⇐	<code>\Longleftarrow<sup>(p)</sup></code>	long leftwards double arrow
U+027F9	⇒	⇒	⇒	⇒	⇒	⇒	<code>\Longrightarrow<sup>(p)</sup></code>	long rightwards double arrow

USV	L	S	E	P	A	N	Macro	Description
U+027FA	↔	↔	↔	↔	↔	↔	<code>\Longlefttrightarrow<sup>(p)</sup></code>	long left right double arrow
U+027FB	←̄	←̄	←̄	←̄	←̄	←̄	<code>\longmapsfrom</code>	long leftwards arrow from bar
U+027FC	→̄	→̄	→̄	→̄	→̄	→̄	<code>\longmapsto<sup>(p)</sup></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
U+02904		⇔̄			⇔̄		<code>\nvLeftrightarrow</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>\Uparrow</code>	upwards triple arrow
U+0290B		↓↓↓			↓↓↓		<code>\Ddownarrow</code>	downwards triple arrow
U+0290C		←-			←-		<code>\leftbktarrow</code>	leftwards double dash arrow

usv	L	S	E	P	A	N	Macro	Description
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>\nrightarrowtail</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
U+02917							<code>\nvtwoheadrightarrowtail</code>	rightwards two-headed arrow with tail with vertical stroke
U+02918							<code>\nVtwoheadrightarrowtail</code>	rightwards two-headed arrow with tail with double vertical stroke
U+02919							<code>\lefttail</code>	leftwards arrow-tail
U+0291A							<code>\righttail</code>	rightwards arrow-tail
U+0291B							<code>\leftdbltail</code>	leftwards double arrow-tail
U+0291C							<code>\rightdbltail</code>	rightwards double arrow-tail
U+0291D							<code>\diamondleftarrow</code>	leftwards arrow to black diamond
U+0291E							<code>\rightarrowdiamond</code>	rightwards arrow to black diamond
U+0291F							<code>\diamondleftarrowbar</code>	leftwards arrow from bar to black diamond

usv	L	S	E	P	A	N	Macro	Description
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
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











































usv	L	S	E	P	A	N	Macro	Description
U+0293E							<code>\cwundercurvearrow</code>	lower right semicircular clockwise arrow
U+0293F							<code>\ccwundercurvearrow</code>	lower left semicircular anticlockwise arrow
U+02940							<code>\acwcirclearrow</code>	anticlockwise closed circle arrow
U+02941							<code>\cwcirclearrow</code>	clockwise closed circle arrow
U+02942							<code>\rightarrowshortleftarrow</code>	rightwards arrow above short leftwards arrow
U+02943							<code>\leftarrowshortrightarrow</code>	leftwards arrow above short rightwards arrow
U+02944							<code>\shortrightarrowleftarrow</code>	short rightwards arrow above leftwards arrow
U+02945							<code>\rightarrowplus</code>	rightwards arrow with plus below
U+02946							<code>\leftarrowplus</code>	leftwards arrow with plus below
U+02947							<code>\rightarrowx</code>	rightwards arrow through x
U+02948							<code>\leftrightarrowcircle</code>	left right arrow through small circle
U+02949							<code>\twoheaduparrowcircle</code>	upwards two-headed arrow from small circle
U+0294A							<code>\leftrightharpoonupdown</code>	left barb up right barb down harpoon
U+0294B							<code>\leftrightharpoondownup</code>	left barb down right barb up harpoon
U+0294C							<code>\updownharpoonrightleft</code>	up barb right down barb left harpoon
U+0294D							<code>\updownharpoonleftright</code>	up barb left down barb right harpoon
U+0294E							<code>\leftrightharpoonupup</code>	left barb up right barb up harpoon
U+0294F							<code>\updownharpoonrightright</code>	up barb right down barb right harpoon

















































usv	L	S	E	P	A	N	Macro	Description
u+02950		↖			↗		<code>\leftrightharpoondowndown</code>	left barb down right barb down harpoon
u+02951		↱			↲		<code>\updownharpoonleftleft</code>	up barb left down barb left harpoon
u+02952		↖			↖		<code>\barleftharpoonup</code>	leftwards harpoon with barb up to bar
u+02953		↗			↗		<code>\rightharpoonupbar</code>	rightwards harpoon with barb up to bar
u+02954		↱			↱		<code>\barupharpoonright</code>	upwards harpoon with barb right to bar
u+02955		↲			↲		<code>\downharpoonrightbar</code>	downwards harpoon with barb right to bar
u+02956		↖			↖		<code>\barleftharpoondown</code>	leftwards harpoon with barb down to bar
u+02957		↗			↗		<code>\rightharpoondownbar</code>	rightwards harpoon with barb down to bar
u+02958		↱			↱		<code>\barupharpoonleft</code>	upwards harpoon with barb left to bar
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



usv	L	S	E	P	A	N	Macro	Description
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
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>\dashleftharpoondown</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>\dashrightharpoondown</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

usv	L	S	E	P	A	N	Macro	Description
U+02970		⇒			⇒		<code>\rightimply</code>	right double arrow with rounded head
U+02971		⇒			⇒		<code>\equalrightarrow</code>	equals sign above rightwards arrow
U+02972		⇒			⇒		<code>\similarrrightarrow</code>	tilde operator above rightwards arrow
U+02973		⇐			⇐		<code>\leftarrowssimilar</code>	leftwards arrow above tilde operator
U+02974		⇒			⇒		<code>\rightarrowssimilar</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
U+0297A		⇐			⇐		<code>\leftarrowsubset</code>	leftwards arrow through subset
U+0297B		⇒			⇒		<code>\suplarr</code>	superset above leftwards arrow
U+0297C		↵			↵		<code>\leftfishtail</code>	left fish tail
U+0297D		↶			↶		<code>\rightfishtail</code>	right fish tail
U+0297E		↶			↶		<code>\upfishtail</code>	up fish tail
U+0297F		↷			↷		<code>\downfishtail</code>	down fish tail
U+02982		⋈			⋈		<code>\typecolon</code>	z notation type colon
U+029CE		▵			▵		<code>\rtriltri</code>	right triangle above left triangle
U+029CF		◁			◁		<code>\ltrivb</code>	left triangle beside vertical bar
U+029D0		▷			▷		<code>\vbrtri</code>	vertical bar beside right triangle

USV	L	S	E	P	A	N	Macro	Description
U+029D1							<code>\lfbowtie</code>	left black bowtie
U+029D2							<code>\rfbowtie</code>	right black bowtie
U+029D3							<code>\fbowtie</code>	black bowtie
U+029D4							<code>\lftimes</code>	left black times
U+029D5							<code>\rftimes</code>	right black times
U+029DF							<code>\dualmap</code>	double-ended multimap
U+029E1							<code>\lrtriangleeq</code>	increases as
U+029E3							<code>\eparsl</code>	equals sign and slanted parallel
U+029E4							<code>\smeparsl</code>	equals sign and slanted parallel with tilde above
U+029E5							<code>\eqvparsl</code>	identical to and slanted parallel
U+029E6							<code>\gleichstark</code>	gleich stark
U+029F4							<code>\ruledelayed</code>	rule-delayed
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>\simminusim</code>	similar minus similar
U+02A6D							<code>\congdot</code>	congruent with dot above

USV	L	S	E	P	A	N	Macro	Description
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
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<sup>(a)</sup></code>	less-than or slanted equal to
U+02A7E							<code>\geqslant<sup>(a)</sup></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

USV	L	S	E	P	A	N	Macro	Description
U+02A84		➤			➤		<code>\gesdotol</code>	greater-than or slanted equal to with dot above left
U+02A85	➤	➤	➤	➤	➤	➤	<code>\lessapprox<sup>(a)</sup></code>	less-than or approximate
U+02A86	➤	➤	➤	➤	➤	➤	<code>\gtrapprox<sup>(a)</sup></code>	greater-than or approximate
U+02A87	➤	➤	➤	➤	➤	➤	<code>\lneq<sup>(a)</sup></code>	less-than and single-line not equal to
U+02A88	➤	➤	➤	➤	➤	➤	<code>\gneq<sup>(a)</sup></code>	greater-than and single-line not equal to
U+02A89	➤	➤	➤	➤	➤	➤	<code>\lnapprox<sup>(a)</sup></code>	less-than and not approximate
U+02A8A	➤	➤	➤	➤	➤	➤	<code>\gnapprox<sup>(a)</sup></code>	greater-than and not approximate
U+02A8B	➤	➤	➤	➤	➤	➤	<code>\lesseqgtr<sup>(a)</sup></code>	less-than above double-line equal above greater-than
U+02A8C	➤	➤	➤	➤	➤	➤	<code>\gtreqless<sup>(a)</sup></code>	greater-than above double-line equal above less-than
U+02A8D		➤			➤		<code>\lsime</code>	less-than above similar or equal
U+02A8E		➤			➤		<code>\gsime</code>	greater-than above similar or equal
U+02A8F		➤			➤		<code>\lsimg</code>	less-than above similar above greater-than
U+02A90		➤			➤		<code>\gsiml</code>	greater-than above similar above less-than
U+02A91		➤			➤		<code>\lgE</code>	less-than above greater-than above double-line equal
U+02A92		➤			➤		<code>\g1E</code>	greater-than above less-than above double-line equal
U+02A93		➤			➤		<code>\lesges</code>	less-than above slanted equal above greater-than above slanted equal
U+02A94		➤			➤		<code>\gesles</code>	greater-than above slanted equal above less-than above slanted equal
U+02A95	➤	➤	➤	➤	➤	➤	<code>\eqslantless<sup>(a)</sup></code>	slanted equal to or less-than

USV	L	S	E	P	A	N	Macro	Description
U+02A96	➤	➤	➤	➤	➤	➤	<code>\eqslantgtr<sup>(a)</sup></code>	slanted equal to or greater-than
U+02A97		⋈			⋈		<code>\elsdot</code>	slanted equal to or less-than with dot inside
U+02A98		➤			➤		<code>\egsdot</code>	slanted equal to or greater-than with dot inside
U+02A99		⋈			⋈		<code>\eqqless</code>	double-line equal to or less-than
U+02A9A		⋈			⋈		<code>\eqqgtr</code>	double-line equal to or greater-than
U+02A9B		⋈	⋈		⋈	⋈	<code>\eqqslantless</code>	double-line slanted equal to or less-than
U+02A9C		⋈	⋈		⋈	⋈	<code>\eqqslantgtr</code>	double-line slanted equal to or greater-than
U+02A9D		⋈			⋈		<code>\simless</code>	similar or less-than
U+02A9E		⋈			⋈		<code>\simgtr</code>	similar or greater-than
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

USV	L	S	E	P	A	N	Macro	Description
U+02AAA		➤			➤		\smt	smaller than
U+02AAB		➤			➤		\lat	larger than
U+02AAC		➤			➤		\smte	smaller than or equal to
U+02AAD		➤			➤		\late	larger than or equal to
U+02AAE		≡			≡		\bumpeq	equals sign with bumpy above
U+02AAF	⋈	➤	⋈	⋈	➤	⋈	\preceq <sup>(p)</sup>	precedes above single-line equals sign
U+02AB0	⋈	➤	⋈	⋈	➤	⋈	\succeq <sup>(p)</sup>	succeeds above single-line equals sign
U+02AB1		⋈	⋈		⋈	⋈	\precneq	precedes above single-line not equal to
U+02AB2		⋈	⋈		⋈	⋈	\succneq	succeeds above single-line not equal to
U+02AB3		≡	≡		≡	≡	\preceqq	precedes above equals sign
U+02AB4		≡	≡		≡	≡	\succeqq	succeeds above equals sign
U+02AB5		⋈	⋈		⋈	⋈	\precneqq <sup>(a)</sup>	precedes above not equal to
U+02AB6		⋈	⋈		⋈	⋈	\succneqq <sup>(a)</sup>	succeeds above not equal to
U+02AB7		≈	≈		≈	≈	\precapprox <sup>(a)</sup>	precedes above almost equal to
U+02AB8		≈	≈		≈	≈	\succapprox <sup>(a)</sup>	succeeds above almost equal to
U+02AB9		≈	≈		≈	≈	\precnapprox <sup>(a)</sup>	precedes above not almost equal to
U+02ABA		≈	≈		≈	≈	\succnapprox <sup>(a)</sup>	succeeds above not almost equal to
U+02ABB		➤			➤		\Prec	double precedes
U+02ABC		➤			➤		\Succ	double succeeds
U+02ABD		⊂			⊂		\subsetdot	subset with dot
U+02ABE		⊃			⊃		\supsetdot	superset with dot




USV	L	S	E	P	A	N	Macro	Description
U+02ABF		⊆ <sup>+</sup>			⊆ <sup>+</sup>		<code>\subsetplus</code>	subset with plus sign below
U+02AC0		⊇ <sup>+</sup>			⊇ <sup>+</sup>		<code>\supsetplus</code>	superset with plus sign below
U+02AC1		⊆ <sup>×</sup>			⊆ <sup>×</sup>		<code>\submult</code>	subset with multiplication sign below
U+02AC2		⊇ <sup>×</sup>			⊇ <sup>×</sup>		<code>\supmult</code>	superset with multiplication sign below
U+02AC3		⊆ <sup>⋅</sup>			⊆ <sup>⋅</sup>		<code>\subedot</code>	subset of or equal to with dot above
U+02AC4		⊇ <sup>⋅</sup>			⊇ <sup>⋅</sup>		<code>\supedot</code>	superset of or equal to with dot above
U+02AC5		⊆ <sup>=</sup>	⊆ <sup>=</sup>		⊆ <sup>=</sup>	⊆ <sup>=</sup>	<code>\subseteqq<sup>(a)</sup></code>	subset of above equals sign
U+02AC6		⊇ <sup>=</sup>	⊇ <sup>=</sup>		⊇ <sup>=</sup>	⊇ <sup>=</sup>	<code>\supseteqq<sup>(a)</sup></code>	superset of above equals sign
U+02AC7		⊆ <sup>~</sup>			⊆ <sup>~</sup>		<code>\subsim</code>	subset of above tilde operator
U+02AC8		⊇ <sup>~</sup>			⊇ <sup>~</sup>		<code>\supsim</code>	superset of above tilde operator
U+02AC9		⊆ <sup>≈</sup>			⊆ <sup>≈</sup>		<code>\subsetapprox</code>	subset of above almost equal to
U+02ACA		⊇ <sup>≈</sup>			⊇ <sup>≈</sup>		<code>\supsetapprox</code>	superset of above almost equal to
U+02ACB		⊆ <sup>≠</sup>	⊆ <sup>≠</sup>		⊆ <sup>≠</sup>	⊆ <sup>≠</sup>	<code>\subsetneqq<sup>(a)</sup></code>	subset of above not equal to
U+02ACC		⊇ <sup>≠</sup>	⊇ <sup>≠</sup>		⊇ <sup>≠</sup>	⊇ <sup>≠</sup>	<code>\supsetneqq<sup>(a)</sup></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		⊆ <sup>⊇</sup>			⊆ <sup>⊇</sup>		<code>\subsup</code>	subset above superset



USV	L	S	E	P	A	N	Macro	Description
U+02AD4		⊇			⊇		\supsub	superset above subset
U+02AD5		⊆			⊆		\subsub	subset above subset
U+02AD6		⊃			⊃		\supsup	superset above superset
U+02AD7		⊃⊂			⊃⊂		\suphsub	superset beside subset
U+02AD8		⊃⊆			⊃⊆		\supdsub	superset beside and joined by dash with subset
U+02AD9		⌋			⌋		\forkv	element of opening downwards
U+02ADA		⌋⌋			⌋⌋		\topfork	pitchfork with tee top
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

USV	L	S	E	P	A	N	Macro	Description
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
U+02AF2		⏏			⏏		\nhpar	parallel with horizontal stroke
U+02AF3		⏏			⏏		\parsim	parallel with tilde operator
U+02AF7		⏏			⏏		\lllnest	stacked very much less-than
U+02AF8		⏏			⏏		\gggnest	stacked very much greater-than
U+02AF9		⏏	⏏		⏏	⏏	\leqqslant	double-line slanted less-than or equal to
U+02AFA		⏏	⏏		⏏	⏏	\geqqslant	double-line slanted greater-than or equal to
U+02B30		⏏					\circleleftarrow	left arrow with small circle
U+02B31	⏏	⏏	⏏	⏏		⏏	\leftthreearrows	three leftwards arrows
U+02B32		⏏					\leftarrowonoplus	left arrow with circled plus
U+02B33	⏏	⏏	⏏	⏏		⏏	\longleftsquigarrow	long leftwards squiggle arrow
U+02B34		⏏					\nvtwoheadleftarrow	leftwards two-headed arrow with vertical stroke
U+02B35		⏏					\nVtwoheadleftarrow	leftwards two-headed arrow with double vertical stroke
U+02B36		⏏					\twoheadmapsfrom	leftwards two-headed arrow from bar
U+02B37		⏏					\twoheadleftdbkarrow	leftwards two-headed triple-dash arrow

USV	L	S	E	P	A	N	Macro	Description
U+02B38		←⋯					<code>\leftdotarrow</code>	leftwards arrow with dotted stem
U+02B39		↵					<code>\nleftarrowtail</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
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

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

usv	L	S	E	P	A	N	Macro	Description
U+003A6	Φ	Φ	Φ	Φ	Φ	Φ	\muphi	capital phi, greek
U+003A7	Χ	Χ	Χ	Χ	Χ	Χ	\mupchi	capital chi, greek
U+003A8	Ψ	Ψ	Ψ	Ψ	Ψ	Ψ	\mupsi	capital psi, greek
U+003A9	Ω	Ω	Ω	Ω	Ω	Ω	\mupomega	capital omega, greek

### 15.1.2 Upright Greek, lowercase

usv	L	S	E	P	A	N	Macro	Description
U+003B1	α	α	α	α	α	α	\mupalpha	small alpha, greek
U+003B2	β	β	β	β	β	β	\mupbeta	small beta, greek
U+003B3	γ	γ	γ	γ	γ	γ	\mupgamma	small gamma, greek
U+003B4	δ	δ	δ	δ	δ	δ	\mupdelta	small delta, greek
U+003B5	ε	ε	ε	ε	ε	ε	\mupvarepsilon	rounded small varepsilon, greek
U+003B6	ζ	ζ	ζ	ζ	ζ	ζ	\mupzeta	small zeta, greek
U+003B7	η	η	η	η	η	η	\mupeta	small eta, greek
U+003B8	θ	θ	θ	θ	θ	θ	\muptheta	straight theta, small theta, greek
U+003B9	ι	ι	ι	ι	ι	ι	\mupiota	small iota, greek
U+003BA	κ	κ	κ	κ	κ	κ	\mupkappa	small kappa, greek
U+003BB	λ	λ	λ	λ	λ	λ	\muplambda	small lambda, greek
U+003BC	μ	μ	μ	μ	μ	μ	\mupmu	small mu, greek
U+003BD	ν	ν	ν	ν	ν	ν	\mupnu	small nu, greek
U+003BE	ξ	ξ	ξ	ξ	ξ	ξ	\mupxi	small xi, greek
U+003BF	ο	ο	ο	ο	ο	ο	\mupomicron	small omicron, greek

usv	L	S	E	P	A	N	Macro	Description
u+003C0	$\pi$	$\pi$	$\pi$	$\pi$	$\pi$	$\pi$	<code>\muppi</code>	small pi, greek
u+003C1	$\rho$	$\rho$	$\rho$	$\rho$	$\rho$	$\rho$	<code>\muprho</code>	small rho, greek
u+003C2	$\varsigma$	$\varsigma$	$\varsigma$	$\varsigma$	$\varsigma$		<code>\mupvarsigma</code>	terminal sigma, greek
u+003C3	$\sigma$	$\sigma$	$\sigma$	$\sigma$	$\sigma$	$\sigma$	<code>\mupsigma</code>	small sigma, greek
u+003C4	$\tau$	$\tau$	$\tau$	$\tau$	$\tau$	$\tau$	<code>\muptau</code>	small tau, greek
u+003C5	$\upsilon$	$\upsilon$	$\upsilon$	$\upsilon$	$\upsilon$	$\upsilon$	<code>\mupupsilon</code>	small upsilon, greek
u+003C6	$\varphi$	$\varphi$	$\varphi$	$\varphi$	$\phi$	$\varphi$	<code>\mupvarphi</code>	curly or open small phi, greek
u+003C7	$\chi$	$\chi$	$\chi$	$\chi$	$\chi$	$\chi$	<code>\mupchi</code>	small chi, greek
u+003C8	$\psi$	$\psi$	$\psi$	$\psi$	$\psi$	$\psi$	<code>\muppsi</code>	small psi, greek
u+003C9	$\omega$	$\omega$	$\omega$	$\omega$	$\omega$	$\omega$	<code>\mupomega</code>	small omega, greek
u+003D1	$\vartheta$	$\vartheta$	$\vartheta$	$\vartheta$	$\vartheta$	$\vartheta$	<code>\mupvartheta</code>	/vartheta - curly or open theta
u+003D5	$\phi$	$\phi$	$\phi$	$\phi$	$\varphi$	$\phi$	<code>\mupphi</code>	/straightphi - small phi, greek
u+003D6	$\varpi$	$\varpi$	$\varpi$	$\varpi$	$\varpi$	$\varpi$	<code>\mupvarpi</code>	rounded small pi (pomega), greek
u+003DC		$\digamma$					<code>\upDigamma</code>	capital digamma
u+003DD		$\digamma$	$\digamma$			$\digamma$	<code>\updigamma</code>	old greek small letter digamma
u+003F0	$\kappa$	$\kappa$	$\kappa$	$\kappa$	$\kappa$	$\kappa$	<code>\mupvarkappa</code>	rounded small kappa, greek
u+003F1	$\rho$	$\rho$	$\rho$	$\rho$	$\rho$		<code>\mupvarrho</code>	rounded small rho, greek
u+003F4	$\Theta$	$\Theta$	$\Theta$	$\Theta$		$\Theta$	<code>\mupvarTheta</code>	greek capital theta symbol
u+003F5	$\epsilon$	$\epsilon$	$\epsilon$	$\epsilon$		$\epsilon$	<code>\mupepsilon</code>	greek lunate varepsilon symbol

### 15.1.3 Italic, Latin, uppercase

USV	L	S	E	P	A	N	Macro	Description
U+1D434	A	A	A	A	A		\mitA	mathematical italic capital a
U+1D435	B	B	B	B	B		\mitB	mathematical italic capital b
U+1D436	C	C	C	C	C		\mitC	mathematical italic capital c
U+1D437	D	D	D	D	D		\mitD	mathematical italic capital d
U+1D438	E	E	E	E	E		\mitE	mathematical italic capital e
U+1D439	F	F	F	F	F		\mitF	mathematical italic capital f
U+1D43A	G	G	G	G	G		\mitG	mathematical italic capital g
U+1D43B	H	H	H	H	H		\mitH	mathematical italic capital h
U+1D43C	I	I	I	I	I		\mitI	mathematical italic capital i
U+1D43D	J	J	J	J	J		\mitJ	mathematical italic capital j
U+1D43E	K	K	K	K	K		\mitK	mathematical italic capital k
U+1D43F	L	L	L	L	L		\mitL	mathematical italic capital l
U+1D440	M	M	M	M	M		\mitM	mathematical italic capital m
U+1D441	N	N	N	N	N		\mitN	mathematical italic capital n
U+1D442	O	O	O	O	O		\mitO	mathematical italic capital o
U+1D443	P	P	P	P	P		\mitP	mathematical italic capital p
U+1D444	Q	Q	Q	Q	Q		\mitQ	mathematical italic capital q
U+1D445	R	R	R	R	R		\mitR	mathematical italic capital r
U+1D446	S	S	S	S	S		\mitS	mathematical italic capital s
U+1D447	T	T	T	T	T		\mitT	mathematical italic capital t
U+1D448	U	U	U	U	U		\mitU	mathematical italic capital u
U+1D449	V	V	V	V	V		\mitV	mathematical italic capital v



USV	L	S	E	P	A	N	Macro	Description
U+1D44A	W	W	W	W	W		\mitW	mathematical italic capital w
U+1D44B	X	X	X	X	X		\mitX	mathematical italic capital x
U+1D44C	Y	Y	Y	Y	Y		\mitY	mathematical italic capital y
U+1D44D	Z	Z	Z	Z	Z		\mitZ	mathematical italic capital z

#### 15.1.4 Italic, Latin, lowercase

USV	L	S	E	P	A	N	Macro	Description
U+1D44E	a	a	a	a	a		\mita	mathematical italic small a
U+1D44F	b	b	b	b	b		\mitb	mathematical italic small b
U+1D450	c	c	c	c	c		\mitc	mathematical italic small c
U+1D451	d	d	d	d	d		\mitd	mathematical italic small d
U+1D452	e	e	e	e	e		\mite	mathematical italic small e
U+1D453	f	f	f	f	f		\mitf	mathematical italic small f
U+1D454	g	g	g	g	g		\mitg	mathematical italic small g
U+1D456	i	i	i	i	i		\miti	mathematical italic small i
U+1D457	j	j	j	j	j		\mitj	mathematical italic small j
U+1D458	k	k	k	k	k		\mitk	mathematical italic small k
U+1D459	l	l	l	l	l		\mitl	mathematical italic small l
U+1D45A	m	m	m	m	m		\mitm	mathematical italic small m
U+1D45B	n	n	n	n	n		\mitn	mathematical italic small n
U+1D45C	o	o	o	o	o		\mito	mathematical italic small o
U+1D45D	p	p	p	p	p		\mitp	mathematical italic small p

USV	L	S	E	P	A	N	Macro	Description
U+1D45E	q	q	q	q	q		\mitq	mathematical italic small q
U+1D45F	r	r	r	r	r		\mitr	mathematical italic small r
U+1D460	s	s	s	s	s		\mits	mathematical italic small s
U+1D461	t	t	t	t	t		\mitt	mathematical italic small t
U+1D462	u	u	u	u	u		\mitu	mathematical italic small u
U+1D463	v	v	v	v	v		\mitv	mathematical italic small v
U+1D464	w	w	w	w	w		\mitw	mathematical italic small w
U+1D465	x	x	x	x	x		\mitx	mathematical italic small x
U+1D466	y	y	y	y	y		\mity	mathematical italic small y
U+1D467	z	z	z	z	z		\mitz	mathematical italic small z

### 15.1.5 Italic Greek, uppercase

USV	L	S	E	P	A	N	Macro	Description
U+1D6E2	Α	Α	Α	Α	Α		\mitAlpha	mathematical italic capital alpha
U+1D6E3	Β	Β	Β	Β	Β		\mitBeta	mathematical italic capital beta
U+1D6E4	Γ	Γ	Γ	Γ	Γ		\mitGamma	mathematical italic capital gamma
U+1D6E5	Δ	Δ	Δ	Δ	Δ		\mitDelta	mathematical italic capital delta
U+1D6E6	Ε	Ε	Ε	Ε	Ε		\mitEpsilon	mathematical italic capital epsilon
U+1D6E7	Ζ	Ζ	Ζ	Ζ	Ζ		\mitZeta	mathematical italic capital zeta
U+1D6E8	Η	Η	Η	Η	Η		\mitEta	mathematical italic capital eta
U+1D6E9	Θ	Θ	Θ	Θ	Θ		\mitTheta	mathematical italic capital theta
U+1D6EA	Ι	Ι	Ι	Ι	Ι		\mitIota	mathematical italic capital iota

USV	L	S	E	P	A	N	Macro	Description
U+1D6EB	Κ	Κ	Κ	Κ	Κ		\mitKappa	mathematical italic capital kappa
U+1D6EC	Λ	Λ	Λ	Λ	Λ		\mitLambda	mathematical italic capital lambda
U+1D6ED	Μ	Μ	Μ	Μ	Μ		\mitMu	mathematical italic capital mu
U+1D6EE	Ν	Ν	Ν	Ν	Ν		\mitNu	mathematical italic capital nu
U+1D6EF	Ξ	Ξ	Ξ	Ξ	Ξ		\mitXi	mathematical italic capital xi
U+1D6F0	Ο	Ο	Ο	Ο	Ο		\mitOmicron	mathematical italic capital omicron
U+1D6F1	Π	Π	Π	Π	Π		\mitPi	mathematical italic capital pi
U+1D6F2	Ρ	Ρ	Ρ	Ρ	Ρ		\mitRho	mathematical italic capital rho
U+1D6F3	Θ	Θ	Θ	Θ			\mitvarTheta	mathematical italic capital theta symbol
U+1D6F4	Σ	Σ	Σ	Σ	Σ		\mitSigma	mathematical italic capital sigma
U+1D6F5	Τ	Τ	Τ	Τ	Τ		\mitTau	mathematical italic capital tau
U+1D6F6	Υ	Υ	Υ	Υ	Υ		\mitUpsilon	mathematical italic capital upsilon
U+1D6F7	Φ	Φ	Φ	Φ	Φ		\mitPhi	mathematical italic capital phi
U+1D6F8	Χ	Χ	Χ	Χ	Χ		\mitChi	mathematical italic capital chi
U+1D6F9	Ψ	Ψ	Ψ	Ψ	Ψ		\mitPsi	mathematical italic capital psi
U+1D6FA	Ω	Ω	Ω	Ω	Ω		\mitOmega	mathematical italic capital omega

### 15.1.6 Italic Greek, lowercase

USV	L	S	E	P	A	N	Macro	Description
U+1D6FC	α	α	α	α	α		\mitalpha	mathematical italic small alpha
U+1D6FD	β	β	β	β	β		\mitbeta	mathematical italic small beta

USV	L	S	E	P	A	N	Macro	Description
U+1D6FE	$\gamma$	$\gamma$	$\gamma$	$\gamma$	$\gamma$		<code>\mitgamma</code>	mathematical italic small gamma
U+1D6FF	$\delta$	$\delta$	$\delta$	$\delta$	$\delta$		<code>\mitdelta</code>	mathematical italic small delta
U+1D700	$\varepsilon$	$\varepsilon$	$\varepsilon$	$\varepsilon$	$\varepsilon$		<code>\mitvarepsilon</code>	mathematical italic small varepsilon
U+1D701	$\zeta$	$\zeta$	$\zeta$	$\zeta$	$\zeta$		<code>\mitzeta</code>	mathematical italic small zeta
U+1D702	$\eta$	$\eta$	$\eta$	$\eta$	$\eta$		<code>\miteta</code>	mathematical italic small eta
U+1D703	$\theta$	$\theta$	$\theta$	$\theta$	$\theta$		<code>\mittheta</code>	mathematical italic small theta
U+1D704	$\iota$	$\iota$	$\iota$	$\iota$	$\iota$		<code>\mitiota</code>	mathematical italic small iota
U+1D705	$\kappa$	$\kappa$	$\kappa$	$\kappa$	$\kappa$		<code>\mitkappa</code>	mathematical italic small kappa
U+1D706	$\lambda$	$\lambda$	$\lambda$	$\lambda$	$\lambda$		<code>\mitlambda</code>	mathematical italic small lambda
U+1D707	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$		<code>\mitmu</code>	mathematical italic small mu
U+1D708	$\nu$	$\nu$	$\nu$	$\nu$	$\nu$		<code>\mitnu</code>	mathematical italic small nu
U+1D709	$\xi$	$\xi$	$\xi$	$\xi$	$\xi$		<code>\mitxi</code>	mathematical italic small xi
U+1D70A	$\omicron$	$\omicron$	$\omicron$	$\omicron$	$\omicron$		<code>\mitomicron</code>	mathematical italic small omicron
U+1D70B	$\pi$	$\pi$	$\pi$	$\pi$	$\pi$		<code>\mitpi</code>	mathematical italic small pi
U+1D70C	$\rho$	$\rho$	$\rho$	$\rho$	$\rho$		<code>\mitrho</code>	mathematical italic small rho
U+1D70D	$\varsigma$	$\varsigma$	$\varsigma$	$\varsigma$	$\varsigma$		<code>\mitvarsigma</code>	mathematical italic small final sigma
U+1D70E	$\sigma$	$\sigma$	$\sigma$	$\sigma$	$\sigma$		<code>\mitsigma</code>	mathematical italic small sigma
U+1D70F	$\tau$	$\tau$	$\tau$	$\tau$	$\tau$		<code>\mittau</code>	mathematical italic small tau
U+1D710	$\upsilon$	$\upsilon$	$\upsilon$	$\upsilon$	$\upsilon$		<code>\mitupsilon</code>	mathematical italic small upsilon
U+1D711	$\varphi$	$\varphi$	$\varphi$	$\varphi$	$\phi$		<code>\mitvarphi</code>	mathematical italic small phi
U+1D712	$\chi$	$\chi$	$\chi$	$\chi$	$\chi$		<code>\mitchi</code>	mathematical italic small chi

USV	L	S	E	P	A	N	Macro	Description
U+1D713	ψ	ψ	ψ	ψ	ψ		\mitpsi	mathematical italic small psi
U+1D714	ω	ω	ω	ω	ω		\mitomega	mathematical italic small omega
U+1D715	∂	∂	∂	∂	∂		\mitpartial	mathematical italic partial differential
U+1D716	ε	ε	ε	ε			\mitepsilon	mathematical italic varepsilon symbol
U+1D717	θ	θ	θ	θ	θ		\mitvartheta	mathematical italic theta symbol
U+1D718	κ	κ	κ	κ	κ		\mitvarkappa	mathematical italic kappa symbol
U+1D719	φ	φ	φ	φ	φ		\mitphi	mathematical italic phi symbol
U+1D71A	ρ	ρ	ρ	ρ	ρ		\mitvarrho	mathematical italic rho symbol
U+1D71B	π	π	π	π	π		\mitvarpi	mathematical italic pi symbol

### 15.1.7 Script, Latin, uppercase

USV	L	S	E	P	A	N	Macro	Description
U+1D49C	A	A	A	A	A	A	\mscrA	mathematical script capital a
U+1D49E	C	C	C	C	C	C	\mscrC	mathematical script capital c
U+1D49F	D	D	D	D	D	D	\mscrD	mathematical script capital d
U+1D4A2	G	G	G	G	G	G	\mscrG	mathematical script capital g
U+1D4A5	J	J	J	J	J	J	\mscrJ	mathematical script capital j
U+1D4A6	K	K	K	K	K	K	\mscrK	mathematical script capital k
U+1D4A9	N	N	N	N	N	N	\mscrN	mathematical script capital n
U+1D4AA	O	O	O	O	O	O	\mscrO	mathematical script capital o
U+1D4AB	P	P	P	P	P	P	\mscrP	mathematical script capital p

USV	L	S	E	P	A	N	Macro	Description
U+1D4AC	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	\mscrQ	mathematical script capital q
U+1D4AE	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	\mscrS	mathematical script capital s
U+1D4AF	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	\mscrT	mathematical script capital t
U+1D4B0	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>	\mscrU	mathematical script capital u
U+1D4B1	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	\mscrV	mathematical script capital v
U+1D4B2	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	\mscrW	mathematical script capital w
U+1D4B3	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	\mscrX	mathematical script capital x
U+1D4B4	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	\mscrY	mathematical script capital y
U+1D4B5	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	\mscrZ	mathematical script capital z

### 15.1.8 Script, Latin, lowercase

USV	L	S	E	P	A	N	Macro	Description
U+1D4B6	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	\mscra	mathematical script small a
U+1D4B7	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	\mscrb	mathematical script small b
U+1D4B8	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	\mscrc	mathematical script small c
U+1D4B9	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>	\mscrd	mathematical script small d
U+1D4BB	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>	\mscrf	mathematical script small f
U+1D4BD	<i>h</i>	<i>h</i>	<i>h</i>	<i>h</i>	<i>h</i>	<i>h</i>	\mscrh	mathematical script small h
U+1D4BE	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>	\mscri	mathematical script small i
U+1D4BF	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>	\mscrj	mathematical script small j
U+1D4C0	<i>k</i>	<i>k</i>	<i>k</i>	<i>k</i>	<i>k</i>	<i>k</i>	\mscrk	mathematical script small k
U+1D4C1	<i>l</i>	<i>l</i>	<i>l</i>	<i>l</i>	<i>l</i>	<i>l</i>	\mscr l	mathematical script small l

USV	L	S	E	P	A	N	Macro	Description
U+1D4C2		<i>m</i>		<i>m</i>	<i>m</i>		\mscrm	mathematical script small m
U+1D4C3		<i>n</i>		<i>n</i>	<i>n</i>		\mscrn	mathematical script small n
U+1D4C5		<i>p</i>		<i>p</i>	<i>p</i>		\mscrp	mathematical script small p
U+1D4C6		<i>q</i>		<i>q</i>	<i>q</i>		\mscrq	mathematical script small q
U+1D4C7		<i>r</i>		<i>r</i>	<i>r</i>		\mscrr	mathematical script small r
U+1D4C8		<i>s</i>		<i>s</i>	<i>s</i>		\mscrs	mathematical script small s
U+1D4C9		<i>t</i>		<i>t</i>	<i>t</i>		\mscrt	mathematical script small t
U+1D4CA		<i>u</i>		<i>u</i>	<i>u</i>		\mscru	mathematical script small u
U+1D4CB		<i>v</i>		<i>v</i>	<i>v</i>		\mscrv	mathematical script small v
U+1D4CC		<i>w</i>		<i>w</i>	<i>w</i>		\mscrw	mathematical script small w
U+1D4CD		<i>x</i>		<i>x</i>	<i>x</i>		\mscrx	mathematical script small x
U+1D4CE		<i>y</i>		<i>y</i>	<i>y</i>		\mscry	mathematical script small y
U+1D4CF		<i>z</i>		<i>z</i>	<i>z</i>		\mscrz	mathematical script small z

### 15.1.9 Fraktur, Latin, uppercase

USV	L	S	E	P	A	N	Macro	Description
U+1D504	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	\mfrakA	mathematical fraktur capital a
U+1D505	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	\mfrakB	mathematical fraktur capital b
U+1D507	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	\mfrakD	mathematical fraktur capital d
U+1D508	<i>E</i>	<i>E</i>	<i>E</i>	<i>E</i>	<i>E</i>	<i>E</i>	\mfrakE	mathematical fraktur capital e
U+1D509	<i>F</i>	<i>F</i>	<i>F</i>	<i>F</i>	<i>F</i>	<i>F</i>	\mfrakF	mathematical fraktur capital f
U+1D50A	<i>G</i>	<i>G</i>	<i>G</i>	<i>G</i>	<i>G</i>	<i>G</i>	\mfrakG	mathematical fraktur capital g

USV	L	S	E	P	A	N	Macro	Description
U+1D50D	𝔍	𝔖	𝔗	𝔘	𝔙	𝔚	\mfrakJ	mathematical fraktur capital j
U+1D50E	𝔞	𝔟	𝔠	𝔡	𝔢	𝔣	\mfrakK	mathematical fraktur capital k
U+1D50F	𝔡	𝔢	𝔣	𝔤	𝔥	𝔦	\mfrakL	mathematical fraktur capital l
U+1D510	𝔞	𝔟	𝔠	𝔡	𝔢	𝔣	\mfrakM	mathematical fraktur capital m
U+1D511	𝔞	𝔟	𝔠	𝔡	𝔢	𝔣	\mfrakN	mathematical fraktur capital n
U+1D512	𝔡	𝔢	𝔣	𝔤	𝔥	𝔦	\mfrakO	mathematical fraktur capital o
U+1D513	𝔞	𝔟	𝔠	𝔡	𝔢	𝔣	\mfrakP	mathematical fraktur capital p
U+1D514	𝔡	𝔢	𝔣	𝔤	𝔥	𝔦	\mfrakQ	mathematical fraktur capital q
U+1D516	𝔡	𝔢	𝔣	𝔤	𝔥	𝔦	\mfrakS	mathematical fraktur capital s
U+1D517	𝔡	𝔢	𝔣	𝔤	𝔥	𝔦	\mfrakT	mathematical fraktur capital t
U+1D518	𝔡	𝔢	𝔣	𝔤	𝔥	𝔦	\mfrakU	mathematical fraktur capital u
U+1D519	𝔞	𝔟	𝔠	𝔡	𝔢	𝔣	\mfrakV	mathematical fraktur capital v
U+1D51A	𝔞	𝔟	𝔠	𝔡	𝔢	𝔣	\mfrakW	mathematical fraktur capital w
U+1D51B	𝔡	𝔢	𝔣	𝔤	𝔥	𝔦	\mfrakX	mathematical fraktur capital x
U+1D51C	𝔞	𝔟	𝔠	𝔡	𝔢	𝔣	\mfrakY	mathematical fraktur capital y







































































































### 15.1.10 Fraktur, Latin, lowercase

USV	L	S	E	P	A	N	Macro	Description
U+1D51E	𝔞	𝔟	𝔠	𝔡	𝔢	𝔣	\mfraka	mathematical fraktur small a
U+1D51F	𝔞	𝔟	𝔠	𝔡	𝔢	𝔣	\mfrakb	mathematical fraktur small b
U+1D520	𝔞	𝔟	𝔠	𝔡	𝔢	𝔣	\mfrakc	mathematical fraktur small c
U+1D521	𝔞	𝔟	𝔠	𝔡	𝔢	𝔣	\mfrakd	mathematical fraktur small d



usv	L	S	E	P	A	N	Macro	Description
U+1D522	𝄈	𝄉	𝄊	𝄋	𝄌	𝄍	\mfrake	mathematical fraktur small e
U+1D523	𝄎	𝄏	𝄐	𝄑	𝄒	𝄓	\mfrakf	mathematical fraktur small f
U+1D524	𝄔	𝄕	𝄖	𝄗	𝄘	𝄙	\mfrakg	mathematical fraktur small g
U+1D525	𝄚	𝄛	𝄜	𝄝	𝄞	𝄟	\mfrakh	mathematical fraktur small h
U+1D526	𝄠	𝄡	𝄢	𝄣	𝄤	𝄥	\mfraki	mathematical fraktur small i
U+1D527	𝄦	𝄧	𝄨	𝄩	𝄪	𝄫	\mfrakj	mathematical fraktur small j
U+1D528	𝄭	𝄮	𝄯	𝄰	𝄱	𝄲	\mfrakk	mathematical fraktur small k
U+1D529	𝄴	𝄵	𝄶	𝄷	𝄸	𝄹	\mfrakl	mathematical fraktur small l
U+1D52A	𝄺	𝄻	𝄼	𝄽	𝄾	𝄿	\mfrakm	mathematical fraktur small m
U+1D52B	𝄽	𝄿	𝄾	𝄽	𝄿	𝄾	\mfrakn	mathematical fraktur small n
U+1D52C	𝄾	𝄿	𝄾	𝄽	𝄿	𝄾	\mfrako	mathematical fraktur small o
U+1D52D	𝄾	𝄿	𝄾	𝄽	𝄿	𝄾	\mfrakp	mathematical fraktur small p
U+1D52E	𝄾	𝄿	𝄾	𝄽	𝄿	𝄾	\mfrakq	mathematical fraktur small q
U+1D52F	𝄾	𝄿	𝄾	𝄽	𝄿	𝄾	\mfrakr	mathematical fraktur small r
U+1D530	𝄾	𝄿	𝄾	𝄽	𝄿	𝄾	\mfraks	mathematical fraktur small s
U+1D531	𝄾	𝄿	𝄾	𝄽	𝄿	𝄾	\mfrakt	mathematical fraktur small t
U+1D532	𝄾	𝄿	𝄾	𝄽	𝄿	𝄾	\mfraku	mathematical fraktur small u
U+1D533	𝄾	𝄿	𝄾	𝄽	𝄿	𝄾	\mfrakv	mathematical fraktur small v
U+1D534	𝄾	𝄿	𝄾	𝄽	𝄿	𝄾	\mfrakw	mathematical fraktur small w
U+1D535	𝄾	𝄿	𝄾	𝄽	𝄿	𝄾	\mfrakx	mathematical fraktur small x
U+1D536	𝄾	𝄿	𝄾	𝄽	𝄿	𝄾	\mfraky	mathematical fraktur small y
U+1D537	𝄾	𝄿	𝄾	𝄽	𝄿	𝄾	\mfrakz	mathematical fraktur small z









































































### 15.1.11 Blackboard, Latin, uppercase

USV	L	S	E	P	A	N	Macro	Description
U+1D538							\BbbA	mathematical double-struck capital a
U+1D539							\BbbB	mathematical double-struck capital b
U+1D53B							\BbbD	mathematical double-struck capital d
U+1D53C							\BbbE	mathematical double-struck capital e
U+1D53D							\BbbF	mathematical double-struck capital f
U+1D53E							\BbbG	mathematical double-struck capital g
U+1D540							\BbbI	mathematical double-struck capital i
U+1D541							\BbbJ	mathematical double-struck capital j
U+1D542							\BbbK	mathematical double-struck capital k
U+1D543							\BbbL	mathematical double-struck capital l
U+1D544							\BbbM	mathematical double-struck capital m
U+1D546							\BbbO	mathematical double-struck capital o
U+1D54A							\BbbS	mathematical double-struck capital s
U+1D54B							\BbbT	mathematical double-struck capital t
U+1D54C							\BbbU	mathematical double-struck capital u
U+1D54D							\BbbV	mathematical double-struck capital v
U+1D54E							\BbbW	mathematical double-struck capital w





















usv	L	S	E	P	A	N	Macro	Description
U+1D54F	X	X	X	X	X	X	\BbbX	mathematical double-struck capital x
U+1D550	Y	Y	Y	Y	Y	Y	\BbbY	mathematical double-struck capital y

### 15.1.12 Blackboard, Latin, lowercase

usv	L	S	E	P	A	N	Macro	Description
U+1D552	a	a	a	a	a	a	\Bbba	mathematical double-struck small a
U+1D553	b	b	b	b	b	b	\Bbbb	mathematical double-struck small b
U+1D554	c	c	c	c	c	c	\Bbbc	mathematical double-struck small c
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	\Bbbk <sup>(a)</sup>	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

usv	L	S	E	P	A	N	Macro	Description
U+1D560							<code>\Bbbo</code>	mathematical double-struck small o
U+1D561							<code>\Bbbp</code>	mathematical double-struck small p
U+1D562							<code>\Bbbq</code>	mathematical double-struck small q
U+1D563							<code>\Bbbr</code>	mathematical double-struck small r
U+1D564							<code>\Bbbs</code>	mathematical double-struck small s
U+1D565							<code>\Bbbt</code>	mathematical double-struck small t
U+1D566							<code>\Bbbu</code>	mathematical double-struck small u
U+1D567							<code>\Bbbv</code>	mathematical double-struck small v
U+1D568							<code>\Bbbw</code>	mathematical double-struck small w
U+1D569							<code>\Bbbx</code>	mathematical double-struck small x
U+1D56A							<code>\Bbby</code>	mathematical double-struck small y
U+1D56B							<code>\Bbbz</code>	mathematical double-struck small z

### 15.1.13 Sans serif, Latin, uppercase

usv	L	S	E	P	A	N	Macro	Description
U+1D5A0							<code>\msansA</code>	mathematical sans-serif capital a
U+1D5A1							<code>\msansB</code>	mathematical sans-serif capital b
U+1D5A2							<code>\msansC</code>	mathematical sans-serif capital c
U+1D5A3							<code>\msansD</code>	mathematical sans-serif capital d

usv	L	S	E	P	A	N	Macro	Description
U+1D5A4	E	E	E	E	E		\msansE	mathematical sans-serif capital e
U+1D5A5	F	F	F	F	F		\msansF	mathematical sans-serif capital f
U+1D5A6	G	G	G	G	G		\msansG	mathematical sans-serif capital g
U+1D5A7	H	H	H	H	H		\msansH	mathematical sans-serif capital h
U+1D5A8	I	I	I	I	I		\msansI	mathematical sans-serif capital i
U+1D5A9	J	J	J	J	J		\msansJ	mathematical sans-serif capital j
U+1D5AA	K	K	K	K	K		\msansK	mathematical sans-serif capital k
U+1D5AB	L	L	L	L	L		\msansL	mathematical sans-serif capital l
U+1D5AC	M	M	M	M	M		\msansM	mathematical sans-serif capital m
U+1D5AD	N	N	N	N	N		\msansN	mathematical sans-serif capital n
U+1D5AE	O	O	O	O	O		\msansO	mathematical sans-serif capital o
U+1D5AF	P	P	P	P	P		\msansP	mathematical sans-serif capital p
U+1D5B0	Q	Q	Q	Q	Q		\msansQ	mathematical sans-serif capital q
U+1D5B1	R	R	R	R	R		\msansR	mathematical sans-serif capital r
U+1D5B2	S	S	S	S	S		\msansS	mathematical sans-serif capital s
U+1D5B3	T	T	T	T	T		\msansT	mathematical sans-serif capital t
U+1D5B4	U	U	U	U	U		\msansU	mathematical sans-serif capital u
U+1D5B5	V	V	V	V	V		\msansV	mathematical sans-serif capital v
U+1D5B6	W	W	W	W	W		\msansW	mathematical sans-serif capital w

usv	L	S	E	P	A	N	Macro	Description
U+1D5B7	X	X	X	X	X		\msansX	mathematical sans-serif capital x
U+1D5B8	Y	Y	Y	Y	Y		\msansY	mathematical sans-serif capital y
U+1D5B9	Z	Z	Z	Z	Z		\msansZ	mathematical sans-serif capital z

### 15.1.14 Sans serif, Latin, lowercase

usv	L	S	E	P	A	N	Macro	Description
U+1D5BA	a	a	a	a	a		\msansa	mathematical sans-serif small a
U+1D5BB	b	b	b	b	b		\msansb	mathematical sans-serif small b
U+1D5BC	c	c	c	c	c		\msansc	mathematical sans-serif small c
U+1D5BD	d	d	d	d	d		\msansd	mathematical sans-serif small d
U+1D5BE	e	e	e	e	e		\msanse	mathematical sans-serif small e
U+1D5BF	f	f	f	f	f		\msansf	mathematical sans-serif small f
U+1D5C0	g	g	g	g	g		\msansg	mathematical sans-serif small g
U+1D5C1	h	h	h	h	h		\msansh	mathematical sans-serif small h
U+1D5C2	i	i	i	i	i		\msansi	mathematical sans-serif small i
U+1D5C3	j	j	j	j	j		\msansj	mathematical sans-serif small j
U+1D5C4	k	k	k	k	k		\msansk	mathematical sans-serif small k
U+1D5C5	l	l	l	l	l		\msansl	mathematical sans-serif small l
U+1D5C6	m	m	m	m	m		\msansm	mathematical sans-serif small m
U+1D5C7	n	n	n	n	n		\msansn	mathematical sans-serif small n
U+1D5C8	o	o	o	o	o		\msanso	mathematical sans-serif small o
U+1D5C9	p	p	p	p	p		\msansp	mathematical sans-serif small p

USV	L	S	E	P	A	N	Macro	Description
U+1D5CA	q	q	q	q	q		\msansq	mathematical sans-serif small q
U+1D5CB	r	r	r	r	r		\msansr	mathematical sans-serif small r
U+1D5CC	s	s	s	s	s		\msanss	mathematical sans-serif small s
U+1D5CD	t	t	t	t	t		\msanst	mathematical sans-serif small t
U+1D5CE	u	u	u	u	u		\msansu	mathematical sans-serif small u
U+1D5CF	v	v	v	v	v		\msansv	mathematical sans-serif small v
U+1D5D0	w	w	w	w	w		\msansw	mathematical sans-serif small w
U+1D5D1	x	x	x	x	x		\msansx	mathematical sans-serif small x
U+1D5D2	y	y	y	y	y		\msansy	mathematical sans-serif small y
U+1D5D3	z	z	z	z	z		\msansz	mathematical sans-serif small z

### 15.1.15 Italic sans serif, Latin, uppercase

USV	L	S	E	P	A	N	Macro	Description
U+1D608	A	A	A	A	A		\mitsansA	mathematical sans-serif italic capital a
U+1D609	B	B	B	B	B		\mitsansB	mathematical sans-serif italic capital b
U+1D60A	C	C	C	C	C		\mitsansC	mathematical sans-serif italic capital c
U+1D60B	D	D	D	D	D		\mitsansD	mathematical sans-serif italic capital d
U+1D60C	E	E	E	E	E		\mitsansE	mathematical sans-serif italic capital e
U+1D60D	F	F	F	F	F		\mitsansF	mathematical sans-serif italic capital f
U+1D60E	G	G	G	G	G		\mitsansG	mathematical sans-serif italic capital g
U+1D60F	H	H	H	H	H		\mitsansH	mathematical sans-serif italic capital h

usv	L	S	E	P	A	N	Macro	Description
U+1D610	<i>I</i>	<i>I</i>	<i>I</i>	<i>I</i>	<i>I</i>		<code>\mitsansI</code>	mathematical sans-serif italic capital i
U+1D611	<i>J</i>	<i>J</i>	<i>J</i>	<i>J</i>	<i>J</i>		<code>\mitsansJ</code>	mathematical sans-serif italic capital j
U+1D612	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>		<code>\mitsansK</code>	mathematical sans-serif italic capital k
U+1D613	<i>L</i>	<i>L</i>	<i>L</i>	<i>L</i>	<i>L</i>		<code>\mitsansL</code>	mathematical sans-serif italic capital l
U+1D614	<i>M</i>	<i>M</i>	<i>M</i>	<i>M</i>	<i>M</i>		<code>\mitsansM</code>	mathematical sans-serif italic capital m
U+1D615	<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>		<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>		<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>		<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>		<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>		<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>		<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>		<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>		<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>		<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>		<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>		<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>		<code>\mitsansZ</code>	mathematical sans-serif italic capital z



### 15.1.16 Italic sans serif, Latin, lowercase

USV	L	S	E	P	A	N	Macro	Description
U+1D622	<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>		<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>		<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>		<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>		<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>		<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>		<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>		<code>\mitsansh</code>	mathematical sans-serif italic small h
U+1D62A	<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>		<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>		<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>		<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>		<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>		<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>		<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>		<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>		<code>\mitsansq</code>	mathematical sans-serif italic small q

usv	L	S	E	P	A	N	Macro	Description
U+1D633	<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>		<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>		<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>		<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>		<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>		<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>		<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>		<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>		<code>\mitsansz</code>	mathematical sans-serif italic small z

### 15.1.17 Typewriter, Latin, uppercase

usv	L	S	E	P	A	N	Macro	Description
U+1D670	A	A	A	A	A		<code>\mttA</code>	mathematical monospace capital a
U+1D671	B	B	B	B	B		<code>\mttB</code>	mathematical monospace capital b
U+1D672	C	C	C	C	C		<code>\mttC</code>	mathematical monospace capital c
U+1D673	D	D	D	D	D		<code>\mttD</code>	mathematical monospace capital d
U+1D674	E	E	E	E	E		<code>\mttE</code>	mathematical monospace capital e
U+1D675	F	F	F	F	F		<code>\mttF</code>	mathematical monospace capital f

usv	L	S	E	P	A	N	Macro	Description
u+1D676	G	G	G	G	G		\mttG	mathematical monospace capital g
u+1D677	H	H	H	H	H		\mttH	mathematical monospace capital h
u+1D678	I	I	I	I	I		\mttI	mathematical monospace capital i
u+1D679	J	J	J	J	J		\mttJ	mathematical monospace capital j
u+1D67A	K	K	K	K	K		\mttK	mathematical monospace capital k
u+1D67B	L	L	L	L	L		\mttL	mathematical monospace capital l
u+1D67C	M	M	M	M	M		\mttM	mathematical monospace capital m
u+1D67D	N	N	N	N	N		\mttN	mathematical monospace capital n
u+1D67E	O	O	O	O	O		\mttO	mathematical monospace capital o
u+1D67F	P	P	P	P	P		\mttP	mathematical monospace capital p
u+1D680	Q	Q	Q	Q	Q		\mttQ	mathematical monospace capital q
u+1D681	R	R	R	R	R		\mttR	mathematical monospace capital r
u+1D682	S	S	S	S	S		\mttS	mathematical monospace capital s
u+1D683	T	T	T	T	T		\mttT	mathematical monospace capital t
u+1D684	U	U	U	U	U		\mttU	mathematical monospace capital u
u+1D685	V	V	V	V	V		\mttV	mathematical monospace capital v
u+1D686	W	W	W	W	W		\mttW	mathematical monospace capital w

usv	L	S	E	P	A	N	Macro	Description
U+1D687	X	X	X	X	X		\mttX	mathematical monospace capital x
U+1D688	Y	Y	Y	Y	Y		\mttY	mathematical monospace capital y
U+1D689	Z	Z	Z	Z	Z		\mttZ	mathematical monospace capital z

### 15.1.18 Typewriter, Latin, lowercase

usv	L	S	E	P	A	N	Macro	Description
U+1D68A	a	a	a	a	a		\mtta	mathematical monospace small a
U+1D68B	b	b	b	b	b		\mttb	mathematical monospace small b
U+1D68C	c	c	c	c	c		\mttc	mathematical monospace small c
U+1D68D	d	d	d	d	d		\mttd	mathematical monospace small d
U+1D68E	e	e	e	e	e		\mtte	mathematical monospace small e
U+1D68F	f	f	f	f	f		\mttf	mathematical monospace small f
U+1D690	g	g	g	g	g		\mttg	mathematical monospace small g
U+1D691	h	h	h	h	h		\mtth	mathematical monospace small h
U+1D692	i	i	i	i	i		\mtti	mathematical monospace small i
U+1D693	j	j	j	j	j		\mttj	mathematical monospace small j
U+1D694	k	k	k	k	k		\mttk	mathematical monospace small k
U+1D695	l	l	l	l	l		\mttl	mathematical monospace small l

usv	L	S	E	P	A	N	Macro	Description
U+1D696	<span style="color: red;">m</span>	<span style="color: green;">m</span>	<span style="color: red;">m</span>	<span style="color: blue;">m</span>	<span style="color: green;">m</span>		<code>\mttm</code>	mathematical monospace small m
U+1D697	<span style="color: red;">n</span>	<span style="color: green;">n</span>	<span style="color: red;">n</span>	<span style="color: blue;">n</span>	<span style="color: green;">n</span>		<code>\mttn</code>	mathematical monospace small n
U+1D698	<span style="color: red;">o</span>	<span style="color: green;">o</span>	<span style="color: red;">o</span>	<span style="color: blue;">o</span>	<span style="color: green;">o</span>		<code>\mtto</code>	mathematical monospace small o
U+1D699	<span style="color: red;">p</span>	<span style="color: green;">p</span>	<span style="color: red;">p</span>	<span style="color: blue;">p</span>	<span style="color: green;">p</span>		<code>\mttp</code>	mathematical monospace small p
U+1D69A	<span style="color: red;">q</span>	<span style="color: green;">q</span>	<span style="color: red;">q</span>	<span style="color: blue;">q</span>	<span style="color: green;">q</span>		<code>\mttq</code>	mathematical monospace small q
U+1D69B	<span style="color: red;">r</span>	<span style="color: green;">r</span>	<span style="color: red;">r</span>	<span style="color: blue;">r</span>	<span style="color: green;">r</span>		<code>\mttr</code>	mathematical monospace small r
U+1D69C	<span style="color: red;">s</span>	<span style="color: green;">s</span>	<span style="color: red;">s</span>	<span style="color: blue;">s</span>	<span style="color: green;">s</span>		<code>\mtts</code>	mathematical monospace small s
U+1D69D	<span style="color: red;">t</span>	<span style="color: green;">t</span>	<span style="color: red;">t</span>	<span style="color: blue;">t</span>	<span style="color: green;">t</span>		<code>\mttt</code>	mathematical monospace small t
U+1D69E	<span style="color: red;">u</span>	<span style="color: green;">u</span>	<span style="color: red;">u</span>	<span style="color: blue;">u</span>	<span style="color: green;">u</span>		<code>\mttu</code>	mathematical monospace small u
U+1D69F	<span style="color: red;">v</span>	<span style="color: green;">v</span>	<span style="color: red;">v</span>	<span style="color: blue;">v</span>	<span style="color: green;">v</span>		<code>\mttv</code>	mathematical monospace small v
U+1D6A0	<span style="color: red;">w</span>	<span style="color: green;">w</span>	<span style="color: red;">w</span>	<span style="color: blue;">w</span>	<span style="color: green;">w</span>		<code>\mttw</code>	mathematical monospace small w
U+1D6A1	<span style="color: red;">x</span>	<span style="color: green;">x</span>	<span style="color: red;">x</span>	<span style="color: blue;">x</span>	<span style="color: green;">x</span>		<code>\mttx</code>	mathematical monospace small x
U+1D6A2	<span style="color: red;">y</span>	<span style="color: green;">y</span>	<span style="color: red;">y</span>	<span style="color: blue;">y</span>	<span style="color: green;">y</span>		<code>\mtty</code>	mathematical monospace small y
U+1D6A3	<span style="color: red;">z</span>	<span style="color: green;">z</span>	<span style="color: red;">z</span>	<span style="color: blue;">z</span>	<span style="color: green;">z</span>		<code>\mttz</code>	mathematical monospace small z

## 15.2 Bold

### 15.2.1 Bold, Latin, uppercase

usv	L	S	E	P	A	N	Macro	Description
U+1D400	<span style="color: red;">A</span>	<span style="color: green;">A</span>	<span style="color: red;">A</span>	<span style="color: blue;">A</span>	<span style="color: green;">A</span>	<span style="color: purple;">A</span>	<code>\mbfA</code>	mathematical bold capital a
U+1D401	<span style="color: red;">B</span>	<span style="color: green;">B</span>	<span style="color: red;">B</span>	<span style="color: blue;">B</span>	<span style="color: green;">B</span>	<span style="color: purple;">B</span>	<code>\mbfB</code>	mathematical bold capital b

USV	L	S	E	P	A	N	Macro	Description
U+1D402	C	C	C	C	C	C	\mbfC	mathematical bold capital c
U+1D403	D	D	D	D	D	D	\mbfD	mathematical bold capital d
U+1D404	E	E	E	E	E	E	\mbfE	mathematical bold capital e
U+1D405	F	F	F	F	F	F	\mbfF	mathematical bold capital f
U+1D406	G	G	G	G	G	G	\mbfG	mathematical bold capital g
U+1D407	H	H	H	H	H	H	\mbfH	mathematical bold capital h
U+1D408	I	I	I	I	I	I	\mbfI	mathematical bold capital i
U+1D409	J	J	J	J	J	J	\mbfJ	mathematical bold capital j
U+1D40A	K	K	K	K	K	K	\mbfK	mathematical bold capital k
U+1D40B	L	L	L	L	L	L	\mbfL	mathematical bold capital l
U+1D40C	M	M	M	M	M	M	\mbfM	mathematical bold capital m
U+1D40D	N	N	N	N	N	N	\mbfN	mathematical bold capital n
U+1D40E	O	O	O	O	O	O	\mbfO	mathematical bold capital o
U+1D40F	P	P	P	P	P	P	\mbfP	mathematical bold capital p
U+1D410	Q	Q	Q	Q	Q	Q	\mbfQ	mathematical bold capital q
U+1D411	R	R	R	R	R	R	\mbfR	mathematical bold capital r
U+1D412	S	S	S	S	S	S	\mbfS	mathematical bold capital s
U+1D413	T	T	T	T	T	T	\mbfT	mathematical bold capital t
U+1D414	U	U	U	U	U	U	\mbfU	mathematical bold capital u
U+1D415	V	V	V	V	V	V	\mbfV	mathematical bold capital v
U+1D416	W	W	W	W	W	W	\mbfW	mathematical bold capital w
U+1D417	X	X	X	X	X	X	\mbfX	mathematical bold capital x

USV	L	S	E	P	A	N	Macro	Description
U+1D418	Y	Y	Y	Y	Y	Y	\mbfY	mathematical bold capital y
U+1D419	Z	Z	Z	Z	Z	Z	\mbfZ	mathematical bold capital z

### 15.2.2 Bold, Latin, lowercase

USV	L	S	E	P	A	N	Macro	Description
U+1D41A	a	a	a	a	a	a	\mbfa	mathematical bold small a
U+1D41B	b	b	b	b	b	b	\mbfb	mathematical bold small b
U+1D41C	c	c	c	c	c	c	\mbfc	mathematical bold small c
U+1D41D	d	d	d	d	d	d	\mbfd	mathematical bold small d
U+1D41E	e	e	e	e	e	e	\mbfe	mathematical bold small e
U+1D41F	f	f	f	f	f	f	\mbff	mathematical bold small f
U+1D420	g	g	g	g	g	g	\mbfg	mathematical bold small g
U+1D421	h	h	h	h	h	h	\mbfh	mathematical bold small h
U+1D422	i	i	i	i	i	i	\mbfi	mathematical bold small i
U+1D423	j	j	j	j	j	j	\mbfj	mathematical bold small j
U+1D424	k	k	k	k	k	k	\mbfk	mathematical bold small k
U+1D425	l	l	l	l	l	l	\mbfl	mathematical bold small l
U+1D426	m	m	m	m	m	m	\mbfm	mathematical bold small m
U+1D427	n	n	n	n	n	n	\mbfn	mathematical bold small n
U+1D428	o	o	o	o	o	o	\mbfo	mathematical bold small o
U+1D429	p	p	p	p	p	p	\mbfp	mathematical bold small p
U+1D42A	q	q	q	q	q	q	\mbfq	mathematical bold small q

USV	L	S	E	P	A	N	Macro	Description
U+1D42B	<b>r</b>	<b>r</b>	<b>r</b>	<b>r</b>	<b>r</b>	<b>r</b>	<code>\mbfr</code>	mathematical bold small r
U+1D42C	<b>s</b>	<b>s</b>	<b>s</b>	<b>s</b>	<b>s</b>	<b>s</b>	<code>\mbfs</code>	mathematical bold small s
U+1D42D	<b>t</b>	<b>t</b>	<b>t</b>	<b>t</b>	<b>t</b>	<b>t</b>	<code>\mbft</code>	mathematical bold small t
U+1D42E	<b>u</b>	<b>u</b>	<b>u</b>	<b>u</b>	<b>u</b>	<b>u</b>	<code>\mbfu</code>	mathematical bold small u
U+1D42F	<b>v</b>	<b>v</b>	<b>v</b>	<b>v</b>	<b>v</b>	<b>v</b>	<code>\mbfv</code>	mathematical bold small v
U+1D430	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<code>\mbfw</code>	mathematical bold small w
U+1D431	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<code>\mbfx</code>	mathematical bold small x
U+1D432	<b>y</b>	<b>y</b>	<b>y</b>	<b>y</b>	<b>y</b>	<b>y</b>	<code>\mbfy</code>	mathematical bold small y
U+1D433	<b>z</b>	<b>z</b>	<b>z</b>	<b>z</b>	<b>z</b>	<b>z</b>	<code>\mbfz</code>	mathematical bold small z

### 15.2.3 Bold Greek, uppercase

USV	L	S	E	P	A	N	Macro	Description
U+1D6A8	<b>Α</b>	<b>Α</b>	<b>Α</b>	<b>Α</b>	<b>Α</b>	<b>Α</b>	<code>\mbfAlpha</code>	mathematical bold capital alpha
U+1D6A9	<b>Β</b>	<b>Β</b>	<b>Β</b>	<b>Β</b>	<b>Β</b>	<b>Β</b>	<code>\mbfBeta</code>	mathematical bold capital beta
U+1D6AA	<b>Γ</b>	<b>Γ</b>	<b>Γ</b>	<b>Γ</b>	<b>Γ</b>	<b>Γ</b>	<code>\mbfGamma</code>	mathematical bold capital gamma
U+1D6AB	<b>Δ</b>	<b>Δ</b>	<b>Δ</b>	<b>Δ</b>	<b>Δ</b>	<b>Δ</b>	<code>\mbfDelta</code>	mathematical bold capital delta
U+1D6AC	<b>Ε</b>	<b>Ε</b>	<b>Ε</b>	<b>Ε</b>	<b>Ε</b>	<b>Ε</b>	<code>\mbfEpsilon</code>	mathematical bold capital epsilon
U+1D6AD	<b>Ζ</b>	<b>Ζ</b>	<b>Ζ</b>	<b>Ζ</b>	<b>Ζ</b>	<b>Ζ</b>	<code>\mbfZeta</code>	mathematical bold capital zeta
U+1D6AE	<b>Η</b>	<b>Η</b>	<b>Η</b>	<b>Η</b>	<b>Η</b>	<b>Η</b>	<code>\mbfEta</code>	mathematical bold capital eta
U+1D6AF	<b>Θ</b>	<b>Θ</b>	<b>Θ</b>	<b>Θ</b>	<b>Θ</b>	<b>Θ</b>	<code>\mbfTheta</code>	mathematical bold capital theta
U+1D6B0	<b>Ι</b>	<b>Ι</b>	<b>Ι</b>	<b>Ι</b>	<b>Ι</b>	<b>Ι</b>	<code>\mbfIota</code>	mathematical bold capital iota
U+1D6B1	<b>Κ</b>	<b>Κ</b>	<b>Κ</b>	<b>Κ</b>	<b>Κ</b>	<b>Κ</b>	<code>\mbfKappa</code>	mathematical bold capital kappa



USV	L	S	E	P	A	N	Macro	Description
U+1D6B2	Λ	Λ	Λ	Λ	Λ	Λ	\mbfLambda	mathematical bold capital lambda
U+1D6B3	Μ	Μ	Μ	Μ	Μ	Μ	\mbfMu	mathematical bold capital mu
U+1D6B4	Ν	Ν	Ν	Ν	Ν	Ν	\mbfNu	mathematical bold capital nu
U+1D6B5	Ξ	Ξ	Ξ	Ξ	Ξ	Ξ	\mbfXi	mathematical bold capital xi
U+1D6B6	Ο	Ο	Ο	Ο	Ο	Ο	\mbfOmicron	mathematical bold capital omicron
U+1D6B7	Π	Π	Π	Π	Π	Π	\mbfPi	mathematical bold capital pi
U+1D6B8	Ρ	Ρ	Ρ	Ρ	Ρ	Ρ	\mbfRho	mathematical bold capital rho
U+1D6B9	Θ	Θ	Θ	Θ	Θ	Θ	\mbfvarTheta	mathematical bold capital theta symbol
U+1D6BA	Σ	Σ	Σ	Σ	Σ	Σ	\mbfSigma	mathematical bold capital sigma
U+1D6BB	Τ	Τ	Τ	Τ	Τ	Τ	\mbfTau	mathematical bold capital tau
U+1D6BC	Υ	Υ	Υ	Υ	Υ	Υ	\mbfUpsilon	mathematical bold capital upsilon
U+1D6BD	Φ	Φ	Φ	Φ	Φ	Φ	\mbfPhi	mathematical bold capital phi
U+1D6BE	Χ	Χ	Χ	Χ	Χ	Χ	\mbfChi	mathematical bold capital chi
U+1D6BF	Ψ	Ψ	Ψ	Ψ	Ψ	Ψ	\mbfPsi	mathematical bold capital psi
U+1D6C0	Ω	Ω	Ω	Ω	Ω	Ω	\mbfOmega	mathematical bold capital omega

#### 15.2.4 Bold Greek, lowercase

USV	L	S	E	P	A	N	Macro	Description
U+1D6C2	α	α	α	α	α	α	\mbfalpha	mathematical bold small alpha
U+1D6C3	β	β	β	β	β	β	\mbfbeta	mathematical bold small beta
U+1D6C4	γ	γ	γ	γ	γ	γ	\mbfgamma	mathematical bold small gamma

USV	L	S	E	P	A	N	Macro	Description
U+1D6C5	δ	δ	δ	δ	δ	δ	\mbfdelta	mathematical bold small delta
U+1D6C6	ε	ε	ε	ε	ε	ε	\mbfvarepsilon	mathematical bold small varepsilon
U+1D6C7	ζ	ζ	ζ	ζ	ζ	ζ	\mbfzeta	mathematical bold small zeta
U+1D6C8	η	η	η	η	η	η	\mbfeta	mathematical bold small eta
U+1D6C9	θ	θ	θ	θ	θ	θ	\mbftheta	mathematical bold small theta
U+1D6CA	ι	ι	ι	ι	ι	ι	\mbfiota	mathematical bold small iota
U+1D6CB	κ	κ	κ	κ	κ	κ	\mbfkappa	mathematical bold small kappa
U+1D6CC	λ	λ	λ	λ	λ	λ	\mbflambda	mathematical bold small lambda
U+1D6CD	μ	μ	μ	μ	μ	μ	\mbfmu	mathematical bold small mu
U+1D6CE	ν	ν	ν	ν	ν	ν	\mbfnu	mathematical bold small nu
U+1D6CF	ξ	ξ	ξ	ξ	ξ	ξ	\mbfxi	mathematical bold small xi
U+1D6D0	ο	ο	ο	ο	ο	ο	\mbfomicron	mathematical bold small omicron
U+1D6D1	π	π	π	π	π	π	\mbfpi	mathematical bold small pi
U+1D6D2	ρ	ρ	ρ	ρ	ρ	ρ	\mbfrho	mathematical bold small rho
U+1D6D3	ς	ς	ς	ς	ς		\mbfvarsigma	mathematical bold small final sigma
U+1D6D4	σ	σ	σ	σ	σ	σ	\mbfsigma	mathematical bold small sigma
U+1D6D5	τ	τ	τ	τ	τ	τ	\mbftau	mathematical bold small tau
U+1D6D6	υ	υ	υ	υ	υ	υ	\mbfupsilon	mathematical bold small up-silon
U+1D6D7	φ	φ	φ	φ	φ	φ	\mbfvarphi	mathematical bold small phi
U+1D6D8	χ	χ	χ	χ	χ	χ	\mbfchi	mathematical bold small chi
U+1D6D9	ψ	ψ	ψ	ψ	ψ	ψ	\mbfpsi	mathematical bold small psi

USV	L	S	E	P	A	N	Macro	Description
U+1D6DA	Ω	Ω	Ω	Ω	Ω	Ω	\mbfomega	mathematical bold small omega
U+1D6DB	∂	∂	∂	∂	∂	∂	\mbfpartial	mathematical bold partial differential
U+1D6DC	ε	ε	ε	ε	ε	ε	\mbfepsilon	mathematical bold varepsilon symbol
U+1D6DD	ϑ	ϑ	ϑ	ϑ	ϑ	ϑ	\mbfvartheta	mathematical bold theta symbol
U+1D6DE	κ	κ	κ	κ	κ	κ	\mbfvarkappa	mathematical bold kappa symbol
U+1D6DF	φ	φ	φ	φ	φ	φ	\mbfphi	mathematical bold phi symbol
U+1D6EO	ρ	ρ	ρ	ρ	ρ		\mbfvarrho	mathematical bold rho symbol
U+1D6E1	ω	ω	ω	ω	ω	ω	\mbfvarpi	mathematical bold pi symbol

### 15.2.5 Bold italic, Latin, uppercase

USV	L	S	E	P	A	N	Macro	Description
U+1D468	A	A	A	A	A		\mbfitA	mathematical bold italic capital a
U+1D469	B	B	B	B	B		\mbfitB	mathematical bold italic capital b
U+1D46A	C	C	C	C	C		\mbfitC	mathematical bold italic capital c
U+1D46B	D	D	D	D	D		\mbfitD	mathematical bold italic capital d
U+1D46C	E	E	E	E	E		\mbfitE	mathematical bold italic capital e
U+1D46D	F	F	F	F	F		\mbfitF	mathematical bold italic capital f
U+1D46E	G	G	G	G	G		\mbfitG	mathematical bold italic capital g
U+1D46F	H	H	H	H	H		\mbfitH	mathematical bold italic capital h

usv	L	S	E	P	A	N	Macro	Description
U+1D470	I	I	I	I	I		\mbfitI	mathematical bold italic capital i
U+1D471	J	J	J	J	J		\mbfitJ	mathematical bold italic capital j
U+1D472	K	K	K	K	K		\mbfitK	mathematical bold italic capital k
U+1D473	L	L	L	L	L		\mbfitL	mathematical bold italic capital l
U+1D474	M	M	M	M	M		\mbfitM	mathematical bold italic capital m
U+1D475	N	N	N	N	N		\mbfitN	mathematical bold italic capital n
U+1D476	O	O	O	O	O		\mbfitO	mathematical bold italic capital o
U+1D477	P	P	P	P	P		\mbfitP	mathematical bold italic capital p
U+1D478	Q	Q	Q	Q	Q		\mbfitQ	mathematical bold italic capital q
U+1D479	R	R	R	R	R		\mbfitR	mathematical bold italic capital r
U+1D47A	S	S	S	S	S		\mbfitS	mathematical bold italic capital s
U+1D47B	T	T	T	T	T		\mbfitT	mathematical bold italic capital t
U+1D47C	U	U	U	U	U		\mbfitU	mathematical bold italic capital u
U+1D47D	V	V	V	V	V		\mbfitV	mathematical bold italic capital v
U+1D47E	W	W	W	W	W		\mbfitW	mathematical bold italic capital w
U+1D47F	X	X	X	X	X		\mbfitX	mathematical bold italic capital x
U+1D480	Y	Y	Y	Y	Y		\mbfitY	mathematical bold italic capital y
U+1D481	Z	Z	Z	Z	Z		\mbfitZ	mathematical bold italic capital z

usv	L	S	E	P	A	N	Macro	Description
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### 15.2.6 Bold italic, Latin, lowercase

usv	L	S	E	P	A	N	Macro	Description
U+1D482	<b>a</b>	<b>a</b>	<b>a</b>	<b>a</b>	<b>a</b>		<code>\mbfita</code>	mathematical bold italic small a
U+1D483	<b>b</b>	<b>b</b>	<b>b</b>	<b>b</b>	<b>b</b>		<code>\mbfitb</code>	mathematical bold italic small b
U+1D484	<b>c</b>	<b>c</b>	<b>c</b>	<b>c</b>	<b>c</b>		<code>\mbfitc</code>	mathematical bold italic small c
U+1D485	<b>d</b>	<b>d</b>	<b>d</b>	<b>d</b>	<b>d</b>		<code>\mbfitd</code>	mathematical bold italic small d
U+1D486	<b>e</b>	<b>e</b>	<b>e</b>	<b>e</b>	<b>e</b>		<code>\mbfite</code>	mathematical bold italic small e
U+1D487	<b>f</b>	<b>f</b>	<b>f</b>	<b>f</b>	<b>f</b>		<code>\mbfitf</code>	mathematical bold italic small f
U+1D488	<b>g</b>	<b>g</b>	<b>g</b>	<b>g</b>	<b>g</b>		<code>\mbfitg</code>	mathematical bold italic small g
U+1D489	<b>h</b>	<b>h</b>	<b>h</b>	<b>h</b>	<b>h</b>		<code>\mbfith</code>	mathematical bold italic small h
U+1D48A	<b>i</b>	<b>i</b>	<b>i</b>	<b>i</b>	<b>i</b>		<code>\mbfiti</code>	mathematical bold italic small i
U+1D48B	<b>j</b>	<b>j</b>	<b>j</b>	<b>j</b>	<b>j</b>		<code>\mbfitj</code>	mathematical bold italic small j
U+1D48C	<b>k</b>	<b>k</b>	<b>k</b>	<b>k</b>	<b>k</b>		<code>\mbfitk</code>	mathematical bold italic small k
U+1D48D	<b>l</b>	<b>l</b>	<b>l</b>	<b>l</b>	<b>l</b>		<code>\mbfitl</code>	mathematical bold italic small l
U+1D48E	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>		<code>\mbfitm</code>	mathematical bold italic small $\underline{m}$
U+1D48F	<b>n</b>	<b>n</b>	<b>n</b>	<b>n</b>	<b>n</b>		<code>\mbfitn</code>	mathematical bold italic small n
U+1D490	<b>o</b>	<b>o</b>	<b>o</b>	<b>o</b>	<b>o</b>		<code>\mbfito</code>	mathematical bold italic small o
U+1D491	<b>p</b>	<b>p</b>	<b>p</b>	<b>p</b>	<b>p</b>		<code>\mbfitp</code>	mathematical bold italic small p
U+1D492	<b>q</b>	<b>q</b>	<b>q</b>	<b>q</b>	<b>q</b>		<code>\mbfitq</code>	mathematical bold italic small q
U+1D493	<b>r</b>	<b>r</b>	<b>r</b>	<b>r</b>	<b>r</b>		<code>\mbfitr</code>	mathematical bold italic small r
U+1D494	<b>s</b>	<b>s</b>	<b>s</b>	<b>s</b>	<b>s</b>		<code>\mbfits</code>	mathematical bold italic small s

USV	L	S	E	P	A	N	Macro	Description
U+1D495	<b>t</b>	<b>t</b>	<b>t</b>	<b>t</b>	<b>t</b>		<code>\mbfitt</code>	mathematical bold italic small t
U+1D496	<b>u</b>	<b>u</b>	<b>u</b>	<b>u</b>	<b>u</b>		<code>\mbfitu</code>	mathematical bold italic small u
U+1D497	<b>v</b>	<b>v</b>	<b>v</b>	<b>v</b>	<b>v</b>		<code>\mbfitv</code>	mathematical bold italic small v
U+1D498	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>		<code>\mbfitw</code>	mathematical bold italic small w
U+1D499	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>		<code>\mbfitx</code>	mathematical bold italic small x
U+1D49A	<b>y</b>	<b>y</b>	<b>y</b>	<b>y</b>	<b>y</b>		<code>\mbfity</code>	mathematical bold italic small y
U+1D49B	<b>z</b>	<b>z</b>	<b>z</b>	<b>z</b>	<b>z</b>		<code>\mbfitz</code>	mathematical bold italic small z

### 15.2.7 Bold italic Greek, uppercase


































































USV	L	S	E	P	A	N	Macro	Description
U+1D71C	<b>Α</b>	<b>Α</b>	<b>Α</b>	<b>Α</b>	<b>Α</b>		<code>\mbfitAlpha</code>	mathematical bold italic capital alpha
U+1D71D	<b>Β</b>	<b>Β</b>	<b>Β</b>	<b>Β</b>	<b>Β</b>		<code>\mbfitBeta</code>	mathematical bold italic capital beta
U+1D71E	<b>Γ</b>	<b>Γ</b>	<b>Γ</b>	<b>Γ</b>	<b>Γ</b>		<code>\mbfitGamma</code>	mathematical bold italic capital gamma
U+1D71F	<b>Δ</b>	<b>Δ</b>	<b>Δ</b>	<b>Δ</b>	<b>Δ</b>		<code>\mbfitDelta</code>	mathematical bold italic capital delta
U+1D720	<b>Ε</b>	<b>Ε</b>	<b>Ε</b>	<b>Ε</b>	<b>Ε</b>		<code>\mbfitEpsilon</code>	mathematical bold italic capital epsilon
U+1D721	<b>Ζ</b>	<b>Ζ</b>	<b>Ζ</b>	<b>Ζ</b>	<b>Ζ</b>		<code>\mbfitZeta</code>	mathematical bold italic capital zeta
U+1D722	<b>Η</b>	<b>Η</b>	<b>Η</b>	<b>Η</b>	<b>Η</b>		<code>\mbfitEta</code>	mathematical bold italic capital eta
U+1D723	<b>Θ</b>	<b>Θ</b>	<b>Θ</b>	<b>Θ</b>	<b>Θ</b>		<code>\mbfitTheta</code>	mathematical bold italic capital theta
U+1D724	<b>Ι</b>	<b>Ι</b>	<b>Ι</b>	<b>Ι</b>	<b>Ι</b>		<code>\mbfitIota</code>	mathematical bold italic capital iota
U+1D725	<b>Κ</b>	<b>Κ</b>	<b>Κ</b>	<b>Κ</b>	<b>Κ</b>		<code>\mbfitKappa</code>	mathematical bold italic capital kappa

USV	L	S	E	P	A	N	Macro	Description
U+1D726	Λ	Λ	Λ	Λ	Λ		\mbfitLambda	mathematical bold italic capital lambda
U+1D727	Μ	Μ	Μ	Μ	Μ		\mbfitMu	mathematical bold italic capital mu
U+1D728	Ν	Ν	Ν	Ν	Ν		\mbfitNu	mathematical bold italic capital nu
U+1D729	Ξ	Ξ	Ξ	Ξ	Ξ		\mbfitXi	mathematical bold italic capital xi
U+1D72A	Ο	Ο	Ο	Ο	Ο		\mbfitOmicron	mathematical bold italic capital omicron
U+1D72B	Π	Π	Π	Π	Π		\mbfitPi	mathematical bold italic capital pi
U+1D72C	Ρ	Ρ	Ρ	Ρ	Ρ		\mbfitRho	mathematical bold italic capital rho
U+1D72D	Θ	Θ	Θ	Θ	Θ		\mbfitvarTheta	mathematical bold italic capital theta symbol
U+1D72E	Σ	Σ	Σ	Σ	Σ		\mbfitSigma	mathematical bold italic capital sigma
U+1D72F	Τ	Τ	Τ	Τ	Τ		\mbfitTau	mathematical bold italic capital tau
U+1D730	Υ	Υ	Υ	Υ	Υ		\mbfitUpsilon	mathematical bold italic capital upsilon
U+1D731	Φ	Φ	Φ	Φ	Φ		\mbfitPhi	mathematical bold italic capital phi
U+1D732	Χ	Χ	Χ	Χ	Χ		\mbfitChi	mathematical bold italic capital chi
U+1D733	Ψ	Ψ	Ψ	Ψ	Ψ		\mbfitPsi	mathematical bold italic capital psi
U+1D734	Ω	Ω	Ω	Ω	Ω		\mbfitOmega	mathematical bold italic capital omega
















## 15.2.8 Bold italic Greek, lowercase

usv	L	S	E	P	A	N	Macro	Description
U+1D736	α	α	α	α	α		\mbfitalpha	mathematical bold italic small alpha
U+1D737	β	β	β	β	β		\mbfitbeta	mathematical bold italic small beta
U+1D738	γ	γ	γ	γ	γ		\mbfitgamma	mathematical bold italic small gamma
U+1D739	δ	δ	δ	δ	δ		\mbfitdelta	mathematical bold italic small delta
U+1D73A	ε	ε	ε	ε	ε		\mbfitvarepsilon	mathematical bold italic small varepsilon
U+1D73B	ζ	ζ	ζ	ζ	ζ		\mbfitzeta	mathematical bold italic small zeta
U+1D73C	η	η	η	η	η		\mbfiteta	mathematical bold italic small eta
U+1D73D	θ	θ	θ	θ	θ		\mbfittheta	mathematical bold italic small theta
U+1D73E	ι	ι	ι	ι	ι		\mbfitiota	mathematical bold italic small iota
U+1D73F	κ	κ	κ	κ	κ		\mbfitkappa	mathematical bold italic small kappa
U+1D740	λ	λ	λ	λ	λ		\mbfitlambda	mathematical bold italic small lambda
U+1D741	μ	μ	μ	μ	μ		\mbfitmu	mathematical bold italic small mu
U+1D742	ν	ν	ν	ν	ν		\mbfitnu	mathematical bold italic small nu
U+1D743	ξ	ξ	ξ	ξ	ξ		\mbfitxi	mathematical bold italic small xi
U+1D744	ο	ο	ο	ο	ο		\mbfitomicron	mathematical bold italic small omicron
U+1D745	π	π	π	π	π		\mbfitpi	mathematical bold italic small pi
U+1D746	ρ	ρ	ρ	ρ	ρ		\mbfitrho	mathematical bold italic small rho
U+1D747	ς	ς	ς	ς	ς		\mbfitvarsigma	mathematical bold italic small final sigma
U+1D748	σ	σ	σ	σ	σ		\mbfitsigma	mathematical bold italic small sigma



USV	L	S	E	P	A	N	Macro	Description
U+1D749							<code>\mbfittau</code>	mathematical bold italic small tau
U+1D74A							<code>\mbfitupsilon</code>	mathematical bold italic small epsilon
U+1D74B							<code>\mbfitvarphi</code>	mathematical bold italic small phi
U+1D74C							<code>\mbfitchi</code>	mathematical bold italic small chi
U+1D74D							<code>\mbfitpsi</code>	mathematical bold italic small psi
U+1D74E							<code>\mbfitomega</code>	mathematical bold italic small omega
U+1D74F							<code>\mbfitpartial</code>	mathematical bold italic partial differential
U+1D750							<code>\mbfitepsilon</code>	mathematical bold italic varepsilon symbol
U+1D751							<code>\mbfitvartheta</code>	mathematical bold italic theta symbol
U+1D752							<code>\mbfitvarkappa</code>	mathematical bold italic kappa symbol
U+1D753							<code>\mbfitphi</code>	mathematical bold italic phi symbol
U+1D754							<code>\mbfitvarrho</code>	mathematical bold italic rho symbol
U+1D755							<code>\mbfitvarpi</code>	mathematical bold italic pi symbol

## 15.2.9 Bold script, Latin, uppercase

USV	L	S	E	P	A	N	Macro	Description
U+1D4D0							<code>\mbfscrA</code>	mathematical bold script capital a
U+1D4D1							<code>\mbfscrB</code>	mathematical bold script capital b
U+1D4D2							<code>\mbfscrC</code>	mathematical bold script capital c

USV	L	S	E	P	A	N	Macro	Description
U+1D4D3	<i><b>𝒟</b></i>	<i><b>𝒟</b></i>	<i><b>𝒟</b></i>	<i><b>𝒟</b></i>	<i><b>𝒟</b></i>	<i><b>𝒟</b></i>	<code>\mbfscrD</code>	mathematical bold script capital d
U+1D4D4	<i><b>𝒠</b></i>	<i><b>𝒠</b></i>	<i><b>𝒠</b></i>	<i><b>𝒠</b></i>	<i><b>𝒠</b></i>	<i><b>𝒠</b></i>	<code>\mbfscrE</code>	mathematical bold script capital e
U+1D4D5	<i><b>𝒡</b></i>	<i><b>𝒡</b></i>	<i><b>𝒡</b></i>	<i><b>𝒡</b></i>	<i><b>𝒡</b></i>	<i><b>𝒡</b></i>	<code>\mbfscrF</code>	mathematical bold script capital f
U+1D4D6	<i><b>𝒢</b></i>	<i><b>𝒢</b></i>	<i><b>𝒢</b></i>	<i><b>𝒢</b></i>	<i><b>𝒢</b></i>	<i><b>𝒢</b></i>	<code>\mbfscrG</code>	mathematical bold script capital g
U+1D4D7	<i><b>𝒣</b></i>	<i><b>𝒣</b></i>	<i><b>𝒣</b></i>	<i><b>𝒣</b></i>	<i><b>𝒣</b></i>	<i><b>𝒣</b></i>	<code>\mbfscrH</code>	mathematical bold script capital h
U+1D4D8	<i><b>𝒥</b></i>	<i><b>𝒥</b></i>	<i><b>𝒥</b></i>	<i><b>𝒥</b></i>	<i><b>𝒥</b></i>	<i><b>𝒥</b></i>	<code>\mbfscrI</code>	mathematical bold script capital i
U+1D4D9	<i><b>𝒦</b></i>	<i><b>𝒦</b></i>	<i><b>𝒦</b></i>	<i><b>𝒦</b></i>	<i><b>𝒦</b></i>	<i><b>𝒦</b></i>	<code>\mbfscrJ</code>	mathematical bold script capital j
U+1D4DA	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<code>\mbfscrK</code>	mathematical bold script capital k
U+1D4DB	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<code>\mbfscrL</code>	mathematical bold script capital l
U+1D4DC	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<code>\mbfscrM</code>	mathematical bold script capital m
U+1D4DD	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<code>\mbfscrN</code>	mathematical bold script capital n
U+1D4DE	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<code>\mbfscrO</code>	mathematical bold script capital o
U+1D4DF	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<code>\mbfscrP</code>	mathematical bold script capital p
U+1D4E0	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<code>\mbfscrQ</code>	mathematical bold script capital q
U+1D4E1	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<code>\mbfscrR</code>	mathematical bold script capital r
U+1D4E2	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<code>\mbfscrS</code>	mathematical bold script capital s
U+1D4E3	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<code>\mbfscrT</code>	mathematical bold script capital t
U+1D4E4	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<i><b>𝒬</b></i>	<code>\mbfscrU</code>	mathematical bold script capital u

USV	L	S	E	P	A	N	Macro	Description
U+1D4E5	<i><b>V</b></i>	<i><b>v</b></i>	<i><b>ʋ</b></i>	<i><b>ℴ</b></i>	<i><b>ℵ</b></i>	<i><b>ℶ</b></i>	<code>\mbfscrV</code>	mathematical bold script capital v
U+1D4E6	<i><b>W</b></i>	<i><b>w</b></i>	<i><b>ʷ</b></i>	<i><b>ℴ</b></i>	<i><b>ℵ</b></i>	<i><b>ℶ</b></i>	<code>\mbfscrW</code>	mathematical bold script capital w
U+1D4E7	<i><b>X</b></i>	<i><b>x</b></i>	<i><b>ʳ</b></i>	<i><b>ℴ</b></i>	<i><b>ℵ</b></i>	<i><b>ℶ</b></i>	<code>\mbfscrX</code>	mathematical bold script capital x
U+1D4E8	<i><b>Y</b></i>	<i><b>y</b></i>	<i><b>ʸ</b></i>	<i><b>ℴ</b></i>	<i><b>ℵ</b></i>	<i><b>ℶ</b></i>	<code>\mbfscrY</code>	mathematical bold script capital y
U+1D4E9	<i><b>Z</b></i>	<i><b>z</b></i>	<i><b>Ẑ</b></i>	<i><b>ℴ</b></i>	<i><b>ℵ</b></i>	<i><b>ℶ</b></i>	<code>\mbfscrZ</code>	mathematical bold script capital z













































































































### 15.2.10 Bold script, Latin, lowercase

USV	L	S	E	P	A	N	Macro	Description
U+1D4EA		<i><b>a</b></i>		<i><b>ɑ</b></i>	<i><b>ⱥ</b></i>		<code>\mbfscra</code>	mathematical bold script small a
U+1D4EB		<i><b>b</b></i>		<i><b>ℬ</b></i>	<i><b>ℓ</b></i>		<code>\mbfscrb</code>	mathematical bold script small b
U+1D4EC		<i><b>c</b></i>		<i><b>℄</b></i>	<i><b>℄</b></i>		<code>\mbfscrc</code>	mathematical bold script small c
U+1D4ED		<i><b>d</b></i>		<i><b>℄</b></i>	<i><b>℄</b></i>		<code>\mbfscrd</code>	mathematical bold script small d
U+1D4EE		<i><b>e</b></i>		<i><b>℄</b></i>	<i><b>℄</b></i>		<code>\mbfscre</code>	mathematical bold script small e
U+1D4EF		<i><b>f</b></i>		<i><b>℄</b></i>	<i><b>℄</b></i>		<code>\mbfscrf</code>	mathematical bold script small f
U+1D4F0		<i><b>g</b></i>		<i><b>℄</b></i>	<i><b>℄</b></i>		<code>\mbfscrg</code>	mathematical bold script small g
U+1D4F1		<i><b>h</b></i>		<i><b>℄</b></i>	<i><b>℄</b></i>		<code>\mbfscrh</code>	mathematical bold script small h
U+1D4F2		<i><b>i</b></i>		<i><b>℄</b></i>	<i><b>℄</b></i>		<code>\mbfscri</code>	mathematical bold script small i
U+1D4F3		<i><b>j</b></i>		<i><b>℄</b></i>	<i><b>℄</b></i>		<code>\mbfscrj</code>	mathematical bold script small j
U+1D4F4		<i><b>k</b></i>		<i><b>℄</b></i>	<i><b>℄</b></i>		<code>\mbfscrk</code>	mathematical bold script small k

USV	L	S	E	P	A	N	Macro	Description
U+1D4F5		<i>ℓ</i>		<i>ℓ</i>	<i>ℓ</i>		<code>\mbfscrℓ</code>	mathematical bold script small l
U+1D4F6		<i>ℓ</i>		<i>ℓ</i>	<i>ℓ</i>		<code>\mbfscrm</code>	mathematical bold script small m
U+1D4F7		<i>ℓ</i>		<i>ℓ</i>	<i>ℓ</i>		<code>\mbfscrn</code>	mathematical bold script small n
U+1D4F8		<i>ℓ</i>		<i>ℓ</i>	<i>ℓ</i>		<code>\mbfscro</code>	mathematical bold script small o
U+1D4F9		<i>ℓ</i>		<i>ℓ</i>	<i>ℓ</i>		<code>\mbfscrp</code>	mathematical bold script small p
U+1D4FA		<i>ℓ</i>		<i>ℓ</i>	<i>ℓ</i>		<code>\mbfscrq</code>	mathematical bold script small q
U+1D4FB		<i>ℓ</i>		<i>ℓ</i>	<i>ℓ</i>		<code>\mbfscrr</code>	mathematical bold script small r
U+1D4FC		<i>ℓ</i>		<i>ℓ</i>	<i>ℓ</i>		<code>\mbfscrs</code>	mathematical bold script small s
U+1D4FD		<i>ℓ</i>		<i>ℓ</i>	<i>ℓ</i>		<code>\mbfscrt</code>	mathematical bold script small t
U+1D4FE		<i>ℓ</i>		<i>ℓ</i>	<i>ℓ</i>		<code>\mbfscru</code>	mathematical bold script small u
U+1D4FF		<i>ℓ</i>		<i>ℓ</i>	<i>ℓ</i>		<code>\mbfscr v</code>	mathematical bold script small v
U+1D500		<i>ℓ</i>		<i>ℓ</i>	<i>ℓ</i>		<code>\mbfscrw</code>	mathematical bold script small w
U+1D501		<i>ℓ</i>		<i>ℓ</i>	<i>ℓ</i>		<code>\mbfscr x</code>	mathematical bold script small x
U+1D502		<i>ℓ</i>		<i>ℓ</i>	<i>ℓ</i>		<code>\mbfscry</code>	mathematical bold script small y
U+1D503		<i>ℓ</i>		<i>ℓ</i>	<i>ℓ</i>		<code>\mbfscrz</code>	mathematical bold script small z

### 15.2.11 Bold fraktur, Latin, uppercase

USV	L	S	E	P	A	N	Macro	Description
U+1D56C	<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

USV	L	S	E	P	A	N	Macro	Description
U+1D56D							<code>\mbffrakB</code>	mathematical bold fraktur capital b
U+1D56E							<code>\mbffrakC</code>	mathematical bold fraktur capital c
U+1D56F							<code>\mbffrakD</code>	mathematical bold fraktur capital d
U+1D570							<code>\mbffrakE</code>	mathematical bold fraktur capital e
U+1D571							<code>\mbffrakF</code>	mathematical bold fraktur capital f
U+1D572							<code>\mbffrakG</code>	mathematical bold fraktur capital g
U+1D573							<code>\mbffrakH</code>	mathematical bold fraktur capital h
U+1D574							<code>\mbffrakI</code>	mathematical bold fraktur capital i
U+1D575							<code>\mbffrakJ</code>	mathematical bold fraktur capital j
U+1D576							<code>\mbffrakK</code>	mathematical bold fraktur capital k
U+1D577							<code>\mbffrakL</code>	mathematical bold fraktur capital l
U+1D578							<code>\mbffrakM</code>	mathematical bold fraktur capital m
U+1D579							<code>\mbffrakN</code>	mathematical bold fraktur capital n
U+1D57A							<code>\mbffrakO</code>	mathematical bold fraktur capital o
U+1D57B							<code>\mbffrakP</code>	mathematical bold fraktur capital p
U+1D57C							<code>\mbffrakQ</code>	mathematical bold fraktur capital q
U+1D57D							<code>\mbffrakR</code>	mathematical bold fraktur capital r
U+1D57E							<code>\mbffrakS</code>	mathematical bold fraktur capital s

USV	L	S	E	P	A	N	Macro	Description
U+1D57F	<b>𝔗</b>	<b>𝔘</b>	<b>𝔙</b>	<b>𝔚</b>	<b>𝔛</b>	<b>𝔜</b>	<code>\mbffrakT</code>	mathematical bold fraktur capital t
U+1D580	<b>𝔞</b>	<b>𝔟</b>	<b>𝔠</b>	<b>𝔡</b>	<b>𝔢</b>	<b>𝔣</b>	<code>\mbffrakU</code>	mathematical bold fraktur capital u
U+1D581	<b>𝔞</b>	<b>𝔟</b>	<b>𝔠</b>	<b>𝔡</b>	<b>𝔢</b>	<b>𝔣</b>	<code>\mbffrakV</code>	mathematical bold fraktur capital v
U+1D582	<b>𝔞</b>	<b>𝔟</b>	<b>𝔠</b>	<b>𝔡</b>	<b>𝔢</b>	<b>𝔣</b>	<code>\mbffrakW</code>	mathematical bold fraktur capital w
U+1D583	<b>𝔞</b>	<b>𝔟</b>	<b>𝔠</b>	<b>𝔡</b>	<b>𝔢</b>	<b>𝔣</b>	<code>\mbffrakX</code>	mathematical bold fraktur capital x
U+1D584	<b>𝔞</b>	<b>𝔟</b>	<b>𝔠</b>	<b>𝔡</b>	<b>𝔢</b>	<b>𝔣</b>	<code>\mbffrakY</code>	mathematical bold fraktur capital y
U+1D585	<b>𝔞</b>	<b>𝔟</b>	<b>𝔠</b>	<b>𝔡</b>	<b>𝔢</b>	<b>𝔣</b>	<code>\mbffrakZ</code>	mathematical bold fraktur capital z

### 15.2.12 Bold fraktur, Latin, lowercase

USV	L	S	E	P	A	N	Macro	Description
U+1D586	<b>𝔞</b>	<b>𝔟</b>	<b>𝔠</b>	<b>𝔡</b>	<b>𝔢</b>	<b>𝔣</b>	<code>\mbffraka</code>	mathematical bold fraktur small a
U+1D587	<b>𝔞</b>	<b>𝔟</b>	<b>𝔠</b>	<b>𝔡</b>	<b>𝔢</b>	<b>𝔣</b>	<code>\mbffrakb</code>	mathematical bold fraktur small b
U+1D588	<b>𝔞</b>	<b>𝔟</b>	<b>𝔠</b>	<b>𝔡</b>	<b>𝔢</b>	<b>𝔣</b>	<code>\mbffrakc</code>	mathematical bold fraktur small c
U+1D589	<b>𝔞</b>	<b>𝔟</b>	<b>𝔠</b>	<b>𝔡</b>	<b>𝔢</b>	<b>𝔣</b>	<code>\mbffrakd</code>	mathematical bold fraktur small d
U+1D58A	<b>𝔞</b>	<b>𝔟</b>	<b>𝔠</b>	<b>𝔡</b>	<b>𝔢</b>	<b>𝔣</b>	<code>\mbffrake</code>	mathematical bold fraktur small e
U+1D58B	<b>𝔞</b>	<b>𝔟</b>	<b>𝔠</b>	<b>𝔡</b>	<b>𝔢</b>	<b>𝔣</b>	<code>\mbffrakf</code>	mathematical bold fraktur small f
U+1D58C	<b>𝔞</b>	<b>𝔟</b>	<b>𝔠</b>	<b>𝔡</b>	<b>𝔢</b>	<b>𝔣</b>	<code>\mbffrakg</code>	mathematical bold fraktur small g
U+1D58D	<b>𝔞</b>	<b>𝔟</b>	<b>𝔠</b>	<b>𝔡</b>	<b>𝔢</b>	<b>𝔣</b>	<code>\mbffrakh</code>	mathematical bold fraktur small h
U+1D58E	<b>𝔞</b>	<b>𝔟</b>	<b>𝔠</b>	<b>𝔡</b>	<b>𝔢</b>	<b>𝔣</b>	<code>\mbffraki</code>	mathematical bold fraktur small i

usv	L	S	E	P	A	N	Macro	Description
U+1D58F	j	j	j	j	j	j	\mbffrakj	mathematical bold fraktur small j
U+1D590	k	k	k	k	k	k	\mbffrak k	mathematical bold fraktur small k
U+1D591	l	l	l	l	l	l	\mbffrak l	mathematical bold fraktur small l
U+1D592	m	m	m	m	m	m	\mbffrak m	mathematical bold fraktur small m
U+1D593	n	n	n	n	n	n	\mbffrak n	mathematical bold fraktur small n
U+1D594	o	o	o	o	o	o	\mbffrak o	mathematical bold fraktur small o
U+1D595	p	p	p	p	p	p	\mbffrak p	mathematical bold fraktur small p
U+1D596	q	q	q	q	q	q	\mbffrak q	mathematical bold fraktur small q
U+1D597	r	r	r	r	r	r	\mbffrak r	mathematical bold fraktur small r
U+1D598	s	s	s	s	s	s	\mbffrak s	mathematical bold fraktur small s
U+1D599	t	t	t	t	t	t	\mbffrak t	mathematical bold fraktur small t
U+1D59A	u	u	u	u	u	u	\mbffrak u	mathematical bold fraktur small u
U+1D59B	v	v	v	v	v	v	\mbffrak v	mathematical bold fraktur small v
U+1D59C	w	w	w	w	w	w	\mbffrak w	mathematical bold fraktur small w
U+1D59D	x	x	x	x	x	x	\mbffrak x	mathematical bold fraktur small x
U+1D59E	y	y	y	y	y	y	\mbffrak y	mathematical bold fraktur small y
U+1D59F	z	z	z	z	z	z	\mbffrak z	mathematical bold fraktur small z

### 15.2.13 Bold sans serif, Latin, uppercase

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



USV	L	S	E	P	A	N	Macro	Description
U+1D5E6	<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>		<code>\mbfsansS</code>	mathematical sans-serif bold capital s
U+1D5E7	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>		<code>\mbfsansT</code>	mathematical sans-serif bold capital t
U+1D5E8	<b>U</b>	<b>U</b>	<b>U</b>	<b>U</b>	<b>U</b>		<code>\mbfsansU</code>	mathematical sans-serif bold capital u
U+1D5E9	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>		<code>\mbfsansV</code>	mathematical sans-serif bold capital v
U+1D5EA	<b>W</b>	<b>W</b>	<b>W</b>	<b>W</b>	<b>W</b>		<code>\mbfsansW</code>	mathematical sans-serif bold capital w
U+1D5EB	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>		<code>\mbfsansX</code>	mathematical sans-serif bold capital x
U+1D5EC	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>		<code>\mbfsansY</code>	mathematical sans-serif bold capital y
U+1D5ED	<b>Z</b>	<b>Z</b>	<b>Z</b>	<b>Z</b>	<b>Z</b>		<code>\mbfsansZ</code>	mathematical sans-serif bold capital z

#### 15.2.14 Bold sans serif, Latin, lowercase

USV	L	S	E	P	A	N	Macro	Description
U+1D5EE	<b>a</b>	<b>a</b>	<b>a</b>	<b>a</b>	<b>a</b>		<code>\mbfsansa</code>	mathematical sans-serif bold small a
U+1D5EF	<b>b</b>	<b>b</b>	<b>b</b>	<b>b</b>	<b>b</b>		<code>\mbfsansb</code>	mathematical sans-serif bold small b
U+1D5F0	<b>c</b>	<b>c</b>	<b>c</b>	<b>c</b>	<b>c</b>		<code>\mbfsansc</code>	mathematical sans-serif bold small c
U+1D5F1	<b>d</b>	<b>d</b>	<b>d</b>	<b>d</b>	<b>d</b>		<code>\mbfsansd</code>	mathematical sans-serif bold small d
U+1D5F2	<b>e</b>	<b>e</b>	<b>e</b>	<b>e</b>	<b>e</b>		<code>\mbfsanse</code>	mathematical sans-serif bold small e
U+1D5F3	<b>f</b>	<b>f</b>	<b>f</b>	<b>f</b>	<b>f</b>		<code>\mbfsansf</code>	mathematical sans-serif bold small f
U+1D5F4	<b>g</b>	<b>g</b>	<b>g</b>	<b>g</b>	<b>g</b>		<code>\mbfsansg</code>	mathematical sans-serif bold small g
U+1D5F5	<b>h</b>	<b>h</b>	<b>h</b>	<b>h</b>	<b>h</b>		<code>\mbfsansh</code>	mathematical sans-serif bold small h

USV	L	S	E	P	A	N	Macro	Description
U+1D5F6	<b>i</b>	<b>i</b>	<b>i</b>	<b>i</b>	<b>i</b>		<code>\mbfsansi</code>	mathematical sans-serif bold small i
U+1D5F7	<b>j</b>	<b>j</b>	<b>j</b>	<b>j</b>	<b>j</b>		<code>\mbfsansj</code>	mathematical sans-serif bold small j
U+1D5F8	<b>k</b>	<b>k</b>	<b>k</b>	<b>k</b>	<b>k</b>		<code>\mbfsansk</code>	mathematical sans-serif bold small k
U+1D5F9	<b>l</b>	<b>l</b>	<b>l</b>	<b>l</b>	<b>l</b>		<code>\mbfsansl</code>	mathematical sans-serif bold small l
U+1D5FA	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>		<code>\mbfsansm</code>	mathematical sans-serif bold small m
U+1D5FB	<b>n</b>	<b>n</b>	<b>n</b>	<b>n</b>	<b>n</b>		<code>\mbfsansn</code>	mathematical sans-serif bold small n
U+1D5FC	<b>o</b>	<b>o</b>	<b>o</b>	<b>o</b>	<b>o</b>		<code>\mbfsanso</code>	mathematical sans-serif bold small o
U+1D5FD	<b>p</b>	<b>p</b>	<b>p</b>	<b>p</b>	<b>p</b>		<code>\mbfsansp</code>	mathematical sans-serif bold small p
U+1D5FE	<b>q</b>	<b>q</b>	<b>q</b>	<b>q</b>	<b>q</b>		<code>\mbfsansq</code>	mathematical sans-serif bold small q
U+1D5FF	<b>r</b>	<b>r</b>	<b>r</b>	<b>r</b>	<b>r</b>		<code>\mbfsansr</code>	mathematical sans-serif bold small r
U+1D600	<b>s</b>	<b>s</b>	<b>s</b>	<b>s</b>	<b>s</b>		<code>\mbfsanss</code>	mathematical sans-serif bold small s
U+1D601	<b>t</b>	<b>t</b>	<b>t</b>	<b>t</b>	<b>t</b>		<code>\mbfsanst</code>	mathematical sans-serif bold small t
U+1D602	<b>u</b>	<b>u</b>	<b>u</b>	<b>u</b>	<b>u</b>		<code>\mbfsansu</code>	mathematical sans-serif bold small u
U+1D603	<b>v</b>	<b>v</b>	<b>v</b>	<b>v</b>	<b>v</b>		<code>\mbfsansv</code>	mathematical sans-serif bold small v
U+1D604	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>		<code>\mbfsansw</code>	mathematical sans-serif bold small w
U+1D605	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>		<code>\mbfsansx</code>	mathematical sans-serif bold small x
U+1D606	<b>y</b>	<b>y</b>	<b>y</b>	<b>y</b>	<b>y</b>		<code>\mbfsansy</code>	mathematical sans-serif bold small y
U+1D607	<b>z</b>	<b>z</b>	<b>z</b>	<b>z</b>	<b>z</b>		<code>\mbfsansz</code>	mathematical sans-serif bold small z

### 15.2.15 Bold italic sans serif, Latin, uppercase

USV	L	S	E	P	A	N	Macro	Description
U+1D63C	<i><b>A</b></i>	<i><b>A</b></i>	<i><b>A</b></i>	<i><b>A</b></i>	<i><b>A</b></i>		<code>\mbfitsansA</code>	mathematical sans-serif bold italic capital a
U+1D63D	<i><b>B</b></i>	<i><b>B</b></i>	<i><b>B</b></i>	<i><b>B</b></i>	<i><b>B</b></i>		<code>\mbfitsansB</code>	mathematical sans-serif bold italic capital b
U+1D63E	<i><b>C</b></i>	<i><b>C</b></i>	<i><b>C</b></i>	<i><b>C</b></i>	<i><b>C</b></i>		<code>\mbfitsansC</code>	mathematical sans-serif bold italic capital c
U+1D63F	<i><b>D</b></i>	<i><b>D</b></i>	<i><b>D</b></i>	<i><b>D</b></i>	<i><b>D</b></i>		<code>\mbfitsansD</code>	mathematical sans-serif bold italic capital d
U+1D640	<i><b>E</b></i>	<i><b>E</b></i>	<i><b>E</b></i>	<i><b>E</b></i>	<i><b>E</b></i>		<code>\mbfitsansE</code>	mathematical sans-serif bold italic capital e
U+1D641	<i><b>F</b></i>	<i><b>F</b></i>	<i><b>F</b></i>	<i><b>F</b></i>	<i><b>F</b></i>		<code>\mbfitsansF</code>	mathematical sans-serif bold italic capital f
U+1D642	<i><b>G</b></i>	<i><b>G</b></i>	<i><b>G</b></i>	<i><b>G</b></i>	<i><b>G</b></i>		<code>\mbfitsansG</code>	mathematical sans-serif bold italic capital g
U+1D643	<i><b>H</b></i>	<i><b>H</b></i>	<i><b>H</b></i>	<i><b>H</b></i>	<i><b>H</b></i>		<code>\mbfitsansH</code>	mathematical sans-serif bold italic capital h
U+1D644	<i><b>I</b></i>	<i><b>I</b></i>	<i><b>I</b></i>	<i><b>I</b></i>	<i><b>I</b></i>		<code>\mbfitsansI</code>	mathematical sans-serif bold italic capital i
U+1D645	<i><b>J</b></i>	<i><b>J</b></i>	<i><b>J</b></i>	<i><b>J</b></i>	<i><b>J</b></i>		<code>\mbfitsansJ</code>	mathematical sans-serif bold italic capital j
U+1D646	<i><b>K</b></i>	<i><b>K</b></i>	<i><b>K</b></i>	<i><b>K</b></i>	<i><b>K</b></i>		<code>\mbfitsansK</code>	mathematical sans-serif bold italic capital k
U+1D647	<i><b>L</b></i>	<i><b>L</b></i>	<i><b>L</b></i>	<i><b>L</b></i>	<i><b>L</b></i>		<code>\mbfitsansL</code>	mathematical sans-serif bold italic capital l
U+1D648	<i><b>M</b></i>	<i><b>M</b></i>	<i><b>M</b></i>	<i><b>M</b></i>	<i><b>M</b></i>		<code>\mbfitsansM</code>	mathematical sans-serif bold italic capital m
U+1D649	<i><b>N</b></i>	<i><b>N</b></i>	<i><b>N</b></i>	<i><b>N</b></i>	<i><b>N</b></i>		<code>\mbfitsansN</code>	mathematical sans-serif bold italic capital n
U+1D64A	<i><b>O</b></i>	<i><b>O</b></i>	<i><b>O</b></i>	<i><b>O</b></i>	<i><b>O</b></i>		<code>\mbfitsansO</code>	mathematical sans-serif bold italic capital o
U+1D64B	<i><b>P</b></i>	<i><b>P</b></i>	<i><b>P</b></i>	<i><b>P</b></i>	<i><b>P</b></i>		<code>\mbfitsansP</code>	mathematical sans-serif bold italic capital p
U+1D64C	<i><b>Q</b></i>	<i><b>Q</b></i>	<i><b>Q</b></i>	<i><b>Q</b></i>	<i><b>Q</b></i>		<code>\mbfitsansQ</code>	mathematical sans-serif bold italic capital q

USV	L	S	E	P	A	N	Macro	Description
U+1D64D	<i><b>R</b></i>	<i><b>R</b></i>	<i><b>R</b></i>	<i><b>R</b></i>	<i><b>R</b></i>		\mbfitsansR	mathematical sans-serif bold italic capital r
U+1D64E	<i><b>S</b></i>	<i><b>S</b></i>	<i><b>S</b></i>	<i><b>S</b></i>	<i><b>S</b></i>		\mbfitsansS	mathematical sans-serif bold italic capital s
U+1D64F	<i><b>T</b></i>	<i><b>T</b></i>	<i><b>T</b></i>	<i><b>T</b></i>	<i><b>T</b></i>		\mbfitsansT	mathematical sans-serif bold italic capital t
U+1D650	<i><b>U</b></i>	<i><b>U</b></i>	<i><b>U</b></i>	<i><b>U</b></i>	<i><b>U</b></i>		\mbfitsansU	mathematical sans-serif bold italic capital u
U+1D651	<i><b>V</b></i>	<i><b>V</b></i>	<i><b>V</b></i>	<i><b>V</b></i>	<i><b>V</b></i>		\mbfitsansV	mathematical sans-serif bold italic capital v
U+1D652	<i><b>W</b></i>	<i><b>W</b></i>	<i><b>W</b></i>	<i><b>W</b></i>	<i><b>W</b></i>		\mbfitsansW	mathematical sans-serif bold italic capital w
U+1D653	<i><b>X</b></i>	<i><b>X</b></i>	<i><b>X</b></i>	<i><b>X</b></i>	<i><b>X</b></i>		\mbfitsansX	mathematical sans-serif bold italic capital x
U+1D654	<i><b>Y</b></i>	<i><b>Y</b></i>	<i><b>Y</b></i>	<i><b>Y</b></i>	<i><b>Y</b></i>		\mbfitsansY	mathematical sans-serif bold italic capital y
U+1D655	<i><b>Z</b></i>	<i><b>Z</b></i>	<i><b>Z</b></i>	<i><b>Z</b></i>	<i><b>Z</b></i>		\mbfitsansZ	mathematical sans-serif bold italic capital z

### 15.2.16 Bold italic sans serif, Latin, lowercase

USV	L	S	E	P	A	N	Macro	Description
U+1D656	<i><b>a</b></i>	<i><b>a</b></i>	<i><b>a</b></i>	<i><b>a</b></i>	<i><b>a</b></i>		\mbfitsansa	mathematical sans-serif bold italic small a
U+1D657	<i><b>b</b></i>	<i><b>b</b></i>	<i><b>b</b></i>	<i><b>b</b></i>	<i><b>b</b></i>		\mbfitsansb	mathematical sans-serif bold italic small b
U+1D658	<i><b>c</b></i>	<i><b>c</b></i>	<i><b>c</b></i>	<i><b>c</b></i>	<i><b>c</b></i>		\mbfitsansc	mathematical sans-serif bold italic small c
U+1D659	<i><b>d</b></i>	<i><b>d</b></i>	<i><b>d</b></i>	<i><b>d</b></i>	<i><b>d</b></i>		\mbfitsansd	mathematical sans-serif bold italic small d
U+1D65A	<i><b>e</b></i>	<i><b>e</b></i>	<i><b>e</b></i>	<i><b>e</b></i>	<i><b>e</b></i>		\mbfitsanse	mathematical sans-serif bold italic small e
U+1D65B	<i><b>f</b></i>	<i><b>f</b></i>	<i><b>f</b></i>	<i><b>f</b></i>	<i><b>f</b></i>		\mbfitsansf	mathematical sans-serif bold italic small f
U+1D65C	<i><b>g</b></i>	<i><b>g</b></i>	<i><b>g</b></i>	<i><b>g</b></i>	<i><b>g</b></i>		\mbfitsansg	mathematical sans-serif bold italic small g

USV	L	S	E	P	A	N	Macro	Description
U+1D65D	<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>		<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>		<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>		<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>		<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>		<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>		<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>		<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>		<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>		<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>		<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>		<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>		<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>		<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>		<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>		<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>		<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>		<code>\mbfitsansy</code>	mathematical sans-serif bold italic small y

usv	L	S	E	P	A	N	Macro	Description
U+1D66F	<b>z</b>	<b>z</b>	<b>z</b>	<b>z</b>	<b>z</b>		<code>\mbfitsansz</code>	mathematical sans-serif bold italic small z

### 15.2.17 Bold sans serif Greek, uppercase

usv	L	S	E	P	A	N	Macro	Description
U+1D756	<b>Α</b>	<b>Α</b>	<b>Α</b>	<b>Α</b>	<b>Α</b>		<code>\mbfsansAlpha</code>	mathematical sans-serif bold capital alpha
U+1D757	<b>Β</b>	<b>Β</b>	<b>Β</b>	<b>Β</b>	<b>Β</b>		<code>\mbfsansBeta</code>	mathematical sans-serif bold capital beta
U+1D758	<b>Γ</b>	<b>Γ</b>	<b>Γ</b>	<b>Γ</b>	<b>Γ</b>		<code>\mbfsansGamma</code>	mathematical sans-serif bold capital gamma
U+1D759	<b>Δ</b>	<b>Δ</b>	<b>Δ</b>	<b>Δ</b>	<b>Δ</b>		<code>\mbfsansDelta</code>	mathematical sans-serif bold capital delta
U+1D75A	<b>Ε</b>	<b>Ε</b>	<b>Ε</b>	<b>Ε</b>	<b>Ε</b>		<code>\mbfsansEpsilon</code>	mathematical sans-serif bold capital epsilon
U+1D75B	<b>Ζ</b>	<b>Ζ</b>	<b>Ζ</b>	<b>Ζ</b>	<b>Ζ</b>		<code>\mbfsansZeta</code>	mathematical sans-serif bold capital zeta
U+1D75C	<b>Η</b>	<b>Η</b>	<b>Η</b>	<b>Η</b>	<b>Η</b>		<code>\mbfsansEta</code>	mathematical sans-serif bold capital eta
U+1D75D	<b>Θ</b>	<b>Θ</b>	<b>Θ</b>	<b>Θ</b>	<b>Θ</b>		<code>\mbfsansTheta</code>	mathematical sans-serif bold capital theta
U+1D75E	<b>Ι</b>	<b>Ι</b>	<b>Ι</b>	<b>Ι</b>	<b>Ι</b>		<code>\mbfsansIota</code>	mathematical sans-serif bold capital iota
U+1D75F	<b>Κ</b>	<b>Κ</b>	<b>Κ</b>	<b>Κ</b>	<b>Κ</b>		<code>\mbfsansKappa</code>	mathematical sans-serif bold capital kappa
U+1D760	<b>Λ</b>	<b>Λ</b>	<b>Λ</b>	<b>Λ</b>	<b>Λ</b>		<code>\mbfsansLambda</code>	mathematical sans-serif bold capital lambda
U+1D761	<b>Μ</b>	<b>Μ</b>	<b>Μ</b>	<b>Μ</b>	<b>Μ</b>		<code>\mbfsansMu</code>	mathematical sans-serif bold capital mu
U+1D762	<b>Ν</b>	<b>Ν</b>	<b>Ν</b>	<b>Ν</b>	<b>Ν</b>		<code>\mbfsansNu</code>	mathematical sans-serif bold capital nu
U+1D763	<b>Ξ</b>	<b>Ξ</b>	<b>Ξ</b>	<b>Ξ</b>	<b>Ξ</b>		<code>\mbfsansXi</code>	mathematical sans-serif bold capital xi
U+1D764	<b>Ο</b>	<b>Ο</b>	<b>Ο</b>	<b>Ο</b>	<b>Ο</b>		<code>\mbfsansOmicron</code>	mathematical sans-serif bold capital omicron

usv	L	S	E	P	A	N	Macro	Description
U+1D765	Π	Π	Π	Π	Π		\mbfsansPi	mathematical sans-serif bold capital pi
U+1D766	Ρ	Ρ	Ρ	Ρ	Ρ		\mbfsansRho	mathematical sans-serif bold capital rho
U+1D767	Θ	Θ	Θ	Θ	Θ		\mbfsansvarTheta	mathematical sans-serif bold capital theta symbol
U+1D768	Σ	Σ	Σ	Σ	Σ		\mbfsansSigma	mathematical sans-serif bold capital sigma
U+1D769	Τ	Τ	Τ	Τ	Τ		\mbfsansTau	mathematical sans-serif bold capital tau
U+1D76A	Υ	Υ	Υ	Υ	Υ		\mbfsansUpsilon	mathematical sans-serif bold capital upsilon
U+1D76B	Φ	Φ	Φ	Φ	Φ		\mbfsansPhi	mathematical sans-serif bold capital phi
U+1D76C	Χ	Χ	Χ	Χ	Χ		\mbfsansChi	mathematical sans-serif bold capital chi
U+1D76D	Ψ	Ψ	Ψ	Ψ	Ψ		\mbfsansPsi	mathematical sans-serif bold capital psi
U+1D76E	Ω	Ω	Ω	Ω	Ω		\mbfsansOmega	mathematical sans-serif bold capital omega

### 15.2.18 Bold sans serif Greek, lowercase

usv	L	S	E	P	A	N	Macro	Description
U+1D770	α	α	α	α	α		\mbfsansalpha	mathematical sans-serif bold small alpha
U+1D771	β	β	β	β	β		\mbfsansbeta	mathematical sans-serif bold small beta
U+1D772	γ	γ	γ	γ	γ		\mbfsansgamma	mathematical sans-serif bold small gamma
U+1D773	δ	δ	δ	δ	δ		\mbfsansdelta	mathematical sans-serif bold small delta
U+1D774	ε	ε	ε	ε	ε		\mbfsansvarepsilon	mathematical sans-serif bold small varepsilon
U+1D775	ζ	ζ	ζ	ζ	ζ		\mbfsanszeta	mathematical sans-serif bold small zeta

usv	L	S	E	P	A	N	Macro	Description
U+1D776	Œ	Œ	Œ	Œ	Œ		\mbfsanseta	mathematical sans-serif bold small eta
U+1D777	Θ	Θ	Θ	Θ	Θ		\mbfsanstheta	mathematical sans-serif bold small theta
U+1D778	Ι	Ι	Ι	Ι	Ι		\mbfsansiota	mathematical sans-serif bold small iota
U+1D779	Κ	Κ	Κ	Κ	Κ		\mbfsanskappa	mathematical sans-serif bold small kappa
U+1D77A	Λ	Λ	Λ	Λ	Λ		\mbfsanslambda	mathematical sans-serif bold small lambda
U+1D77B	Μ	Μ	Μ	Μ	Μ		\mbfsansmu	mathematical sans-serif bold small mu
U+1D77C	Ν	Ν	Ν	Ν	Ν		\mbfsansnu	mathematical sans-serif bold small nu
U+1D77D	Ξ	Ξ	Ξ	Ξ	Ξ		\mbfsansxi	mathematical sans-serif bold small xi
U+1D77E	Ο	Ο	Ο	Ο	Ο		\mbfsansomicron	mathematical sans-serif bold small omicron
U+1D77F	Π	Π	Π	Π	Π		\mbfsanspi	mathematical sans-serif bold small pi
U+1D780	Ρ	Ρ	Ρ	Ρ	Ρ		\mbfsansrho	mathematical sans-serif bold small rho
U+1D781	ς	ς	ς	ς	ς		\mbfsansvarsigma	mathematical sans-serif bold small final sigma
U+1D782	σ	σ	σ	σ	σ		\mbfsanssigma	mathematical sans-serif bold small sigma
U+1D783	Τ	Τ	Τ	Τ	Τ		\mbfsanstau	mathematical sans-serif bold small tau
U+1D784	Υ	Υ	Υ	Υ	Υ		\mbfsansupsilon	mathematical sans-serif bold small upsilon
U+1D785	Φ	Φ	Φ	Φ	Φ		\mbfsansvarphi	mathematical sans-serif bold small phi
U+1D786	Χ	Χ	Χ	Χ	Χ		\mbfsanschi	mathematical sans-serif bold small chi
U+1D787	Ψ	Ψ	Ψ	Ψ	Ψ		\mbfsanspsi	mathematical sans-serif bold small psi



USV	L	S	E	P	A	N	Macro	Description
U+1D788	Ω	Ω	Ω	Ω	Ω		\mbfsansomega	mathematical sans-serif bold small omega
U+1D789	∂	∂	∂	∂	∂		\mbfsanspartial	mathematical sans-serif bold partial differential
U+1D78A	€	€	€	€	€		\mbfsansepsilon	mathematical sans-serif bold varepsilon symbol
U+1D78B	ϑ	ϑ	ϑ	ϑ	ϑ		\mbfsansvartheta	mathematical sans-serif bold theta symbol
U+1D78C	κ	κ	κ	κ	κ		\mbfsansvarkappa	mathematical sans-serif bold kappa symbol
U+1D78D	φ	φ	φ	φ	φ		\mbfsansphi	mathematical sans-serif bold phi symbol
U+1D78E	ρ	ρ	ρ	ρ	ρ		\mbfsansvarrho	mathematical sans-serif bold rho symbol
U+1D78F	ω	ω	ω	ω	ω		\mbfsansvarpi	mathematical sans-serif bold pi symbol

### 15.2.19 Bold italic sans serif Greek, uppercase

USV	L	S	E	P	A	N	Macro	Description
U+1D790	Α	Α	Α	Α	Α		\mbfitsansAlpha	mathematical sans-serif bold italic capital alpha
U+1D791	Β	Β	Β	Β	Β		\mbfitsansBeta	mathematical sans-serif bold italic capital beta
U+1D792	Γ	Γ	Γ	Γ	Γ		\mbfitsansGamma	mathematical sans-serif bold italic capital gamma
U+1D793	Δ	Δ	Δ	Δ	Δ		\mbfitsansDelta	mathematical sans-serif bold italic capital delta
U+1D794	Ε	Ε	Ε	Ε	Ε		\mbfitsansEpsilon	mathematical sans-serif bold italic capital epsilon
U+1D795	Ζ	Ζ	Ζ	Ζ	Ζ		\mbfitsansZeta	mathematical sans-serif bold italic capital zeta
U+1D796	Η	Η	Η	Η	Η		\mbfitsansEta	mathematical sans-serif bold italic capital eta
U+1D797	Θ	Θ	Θ	Θ	Θ		\mbfitsansTheta	mathematical sans-serif bold italic capital theta

USV	L	S	E	P	A	N	Macro	Description
U+1D798	<i>Ι</i>	<i>Ι</i>	<i>Ι</i>	<i>Ι</i>	<i>Ι</i>		<code>\mbfitsansIota</code>	mathematical sans-serif bold italic capital iota
U+1D799	<i>Κ</i>	<i>Κ</i>	<i>Κ</i>	<i>Κ</i>	<i>Κ</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>		<code>\mbfitsansLambda</code>	mathematical sans-serif bold italic capital lambda
U+1D79B	<i>Μ</i>	<i>Μ</i>	<i>Μ</i>	<i>Μ</i>	<i>Μ</i>		<code>\mbfitsansMu</code>	mathematical sans-serif bold italic capital mu
U+1D79C	<i>Ν</i>	<i>Ν</i>	<i>Ν</i>	<i>Ν</i>	<i>Ν</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>		<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>		<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>		<code>\mbfitsansPi</code>	mathematical sans-serif bold italic capital pi
U+1D7A0	<i>Ρ</i>	<i>Ρ</i>	<i>Ρ</i>	<i>Ρ</i>	<i>Ρ</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>		<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>		<code>\mbfitsansSigma</code>	mathematical sans-serif bold italic capital sigma
U+1D7A3	<i>Τ</i>	<i>Τ</i>	<i>Τ</i>	<i>Τ</i>	<i>Τ</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>		<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>		<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>		<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>		<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>		<code>\mbfitsansOmega</code>	mathematical sans-serif bold italic capital omega

### 15.2.20 Bold italic sans serif Greek, lowercase

USV	L	S	E	P	A	N	Macro	Description
U+1D7AA	<b><i>α</i></b>	<b><i>α</i></b>	<b><i>α</i></b>	<b><i>α</i></b>	<b><i>α</i></b>		<code>\mbfitsansalpha</code>	mathematical sans-serif bold italic small alpha
U+1D7AB	<b><i>β</i></b>	<b><i>β</i></b>	<b><i>β</i></b>	<b><i>β</i></b>	<b><i>β</i></b>		<code>\mbfitsansbeta</code>	mathematical sans-serif bold italic small beta
U+1D7AC	<b><i>γ</i></b>	<b><i>γ</i></b>	<b><i>γ</i></b>	<b><i>γ</i></b>	<b><i>γ</i></b>		<code>\mbfitsansgamma</code>	mathematical sans-serif bold italic small gamma
U+1D7AD	<b><i>δ</i></b>	<b><i>δ</i></b>	<b><i>δ</i></b>	<b><i>δ</i></b>	<b><i>δ</i></b>		<code>\mbfitsansdelta</code>	mathematical sans-serif bold italic small delta
U+1D7AE	<b><i>ε</i></b>	<b><i>ε</i></b>	<b><i>ε</i></b>	<b><i>ε</i></b>	<b><i>ε</i></b>		<code>\mbfitsansvarepsilon</code>	mathematical sans-serif bold italic small varepsilon
U+1D7AF	<b><i>ζ</i></b>	<b><i>ζ</i></b>	<b><i>ζ</i></b>	<b><i>ζ</i></b>	<b><i>ζ</i></b>		<code>\mbfitsanszeta</code>	mathematical sans-serif bold italic small zeta
U+1D7B0	<b><i>η</i></b>	<b><i>η</i></b>	<b><i>η</i></b>	<b><i>η</i></b>	<b><i>η</i></b>		<code>\mbfitsanseta</code>	mathematical sans-serif bold italic small eta
U+1D7B1	<b><i>θ</i></b>	<b><i>θ</i></b>	<b><i>θ</i></b>	<b><i>θ</i></b>	<b><i>θ</i></b>		<code>\mbfitsanstheta</code>	mathematical sans-serif bold italic small theta
U+1D7B2	<b><i>ι</i></b>	<b><i>ι</i></b>	<b><i>ι</i></b>	<b><i>ι</i></b>	<b><i>ι</i></b>		<code>\mbfitsansiota</code>	mathematical sans-serif bold italic small iota
U+1D7B3	<b><i>κ</i></b>	<b><i>κ</i></b>	<b><i>κ</i></b>	<b><i>κ</i></b>	<b><i>κ</i></b>		<code>\mbfitsanskappa</code>	mathematical sans-serif bold italic small kappa
U+1D7B4	<b><i>λ</i></b>	<b><i>λ</i></b>	<b><i>λ</i></b>	<b><i>λ</i></b>	<b><i>λ</i></b>		<code>\mbfitsanslambda</code>	mathematical sans-serif bold italic small lambda
U+1D7B5	<b><i>μ</i></b>	<b><i>μ</i></b>	<b><i>μ</i></b>	<b><i>μ</i></b>	<b><i>μ</i></b>		<code>\mbfitsansmu</code>	mathematical sans-serif bold italic small mu
U+1D7B6	<b><i>ν</i></b>	<b><i>ν</i></b>	<b><i>ν</i></b>	<b><i>ν</i></b>	<b><i>ν</i></b>		<code>\mbfitsansnu</code>	mathematical sans-serif bold italic small nu
U+1D7B7	<b><i>ξ</i></b>	<b><i>ξ</i></b>	<b><i>ξ</i></b>	<b><i>ξ</i></b>	<b><i>ξ</i></b>		<code>\mbfitsansxi</code>	mathematical sans-serif bold italic small xi
U+1D7B8	<b><i>ο</i></b>	<b><i>ο</i></b>	<b><i>ο</i></b>	<b><i>ο</i></b>	<b><i>ο</i></b>		<code>\mbfitsansomicron</code>	mathematical sans-serif bold italic small omicron
U+1D7B9	<b><i>π</i></b>	<b><i>π</i></b>	<b><i>π</i></b>	<b><i>π</i></b>	<b><i>π</i></b>		<code>\mbfitsanspi</code>	mathematical sans-serif bold italic small pi
U+1D7BA	<b><i>ρ</i></b>	<b><i>ρ</i></b>	<b><i>ρ</i></b>	<b><i>ρ</i></b>	<b><i>ρ</i></b>		<code>\mbfitsansrho</code>	mathematical sans-serif bold italic small rho
U+1D7BB	<b><i>ς</i></b>	<b><i>ς</i></b>	<b><i>ς</i></b>	<b><i>ς</i></b>	<b><i>ς</i></b>		<code>\mbfitsansvarsigma</code>	mathematical sans-serif bold italic small final sigma

USV	L	S	E	P	A	N	Macro	Description
U+1D7BC	$\sigma$	$\sigma$	$\sigma$	$\sigma$	$\sigma$		<code>\mbfitsanssigma</code>	mathematical sans-serif bold italic small sigma
U+1D7BD	$\tau$	$\tau$	$\tau$	$\tau$	$\tau$		<code>\mbfitsanstau</code>	mathematical sans-serif bold italic small tau
U+1D7BE	$\upsilon$	$\upsilon$	$\upsilon$	$\upsilon$	$\upsilon$		<code>\mbfitsansupsilon</code>	mathematical sans-serif bold italic small upsilon
U+1D7BF	$\varphi$	$\varphi$	$\varphi$	$\varphi$	$\varphi$		<code>\mbfitsansvarphi</code>	mathematical sans-serif bold italic small phi
U+1D7C0	$\chi$	$\chi$	$\chi$	$\chi$	$\chi$		<code>\mbfitsanschi</code>	mathematical sans-serif bold italic small chi
U+1D7C1	$\psi$	$\psi$	$\psi$	$\psi$	$\psi$		<code>\mbfitsanspsi</code>	mathematical sans-serif bold italic small psi
U+1D7C2	$\omega$	$\omega$	$\omega$	$\omega$	$\omega$		<code>\mbfitsansomega</code>	mathematical sans-serif bold italic small omega
U+1D7C3	$\partial$	$\partial$	$\partial$	$\partial$	$\partial$		<code>\mbfitsanspartial</code>	mathematical sans-serif bold italic partial differential
U+1D7C4	$\epsilon$	$\epsilon$	$\epsilon$	$\epsilon$	$\epsilon$		<code>\mbfitsansepsilon</code>	mathematical sans-serif bold italic varepsilon symbol
U+1D7C5	$\vartheta$	$\vartheta$	$\vartheta$	$\vartheta$	$\vartheta$		<code>\mbfitsansvartheta</code>	mathematical sans-serif bold italic theta symbol
U+1D7C6	$\kappa$	$\kappa$	$\kappa$	$\kappa$	$\kappa$		<code>\mbfitsansvarkappa</code>	mathematical sans-serif bold italic kappa symbol
U+1D7C7	$\phi$	$\phi$	$\phi$	$\phi$	$\phi$		<code>\mbfitsansphi</code>	mathematical sans-serif bold italic phi symbol
U+1D7C8	$\varrho$	$\varrho$	$\varrho$	$\varrho$	$\varrho$		<code>\mbfitsansvarrho</code>	mathematical sans-serif bold italic rho symbol
U+1D7C9	$\varpi$	$\varpi$	$\varpi$	$\varpi$	$\varpi$		<code>\mbfitsansvarpi</code>	mathematical sans-serif bold italic pi symbol

### 15.3 Miscellaneous

USV	L	S	E	P	A	N	Macro	Description
U+000F0	$\eth$	$\eth$	$\eth$	$\eth$	$\eth$	$\eth$	<code>\matheth</code>	eth
U+02010	-	-	-	-	-	-	<code>\mathhyphen</code>	hyphen

USV	L	S	E	P	A	N	Macro	Description
U+02102	Ꞁ	ꞁ	Ꞃ	ꞃ	Ꞅ	ꞅ	\BbbC	/bbb c, open face c
U+0210A		Ꞑ	ꞑ	Ꞓ	ꞓ		\mscrG	/scr g, script letter g
U+0210B	ℋ	ℋ	ℋ	ℋ	ℋ	ℋ	\mscrH	hamiltonian (script capital h)
U+0210C	ℎ	ℎ	ℎ	ℎ	ℎ	ℎ	\mfracH	/frak h, upper case h
U+0210D	ℍ	ℍ	ℍ	ℍ	ℍ	ℍ	\BbbH	/bbb h, open face h
U+0210F	ℏ	ℏ	ℏ	ℏ	ℏ	ℏ	\hslash <sup>(a)</sup>	/hslash - variant planck's over 2pi
U+02110	ℐ	ℐ	ℐ	ℐ	ℐ	ℐ	\mscrI	/scr i, script letter i
U+02111	ℑ	ℑ	ℑ	ℑ	ℑ	ℑ	\Im <sup>(p)</sup>	imaginary part
U+02112	ℒ	ℒ	ℒ	ℒ	ℒ	ℒ	\mscrL	lagrangian (script capital l)
U+02113	ℓ	ℓ	ℓ	ℓ	ℓ	ℓ	\ell <sup>(p)</sup>	cursive small l
U+02115	ℕ	ℕ	ℕ	ℕ	ℕ	ℕ	\BbbN	/bbb n, open face n
U+02118	℘	℘	℘	℘	℘	℘	\wp <sup>(p)</sup>	weierstrass p
U+02119	ℙ	ℙ	ℙ	ℙ	ℙ	ℙ	\BbbP	/bbb p, open face p
U+0211A	ℚ	ℚ	ℚ	ℚ	ℚ	ℚ	\BbbQ	/bbb q, open face q
U+0211B	ℛ	ℛ	ℛ	ℛ	ℛ	ℛ	\mscrR	/scr r, script letter r
U+0211C	ℜ	ℜ	ℜ	ℜ	ℜ	ℜ	\Re <sup>(p)</sup>	real part
U+0211D	ℝ	ℝ	ℝ	ℝ	ℝ	ℝ	\BbbR	/bbb r, open face r
U+02124	ℤ	ℤ	ℤ	ℤ	ℤ	ℤ	\BbbZ	/bbb z, open face z
U+02128	ℱ	ℱ	ℱ	ℱ	ℱ	ℱ	\mfracZ	/frak z, upper case z
U+02129		ι			ι		\turnediota	turned iota
U+0212B	Å	Å	Å	Å	Å	Å	\Angstrom	angstrom capital a, ring
U+0212C	ℬ	ℬ	ℬ	ℬ	ℬ	ℬ	\mscrB	bernoulli function (script capital b)

USV	L	S	E	P	A	N	Macro	Description
U+0212D	℄	℄	℄	℄	℄	℄	\mfracC	black-letter capital c
U+0212F		Ⅎ	Ⅎ	Ⅎ	Ⅎ		\mscre	/scr e, script letter e
U+02130	ℴ	ℴ	ℴ	ℴ	ℴ	ℴ	\mscrE	/scr e, script letter e
U+02131	ℵ	ℵ	ℵ	ℵ	ℵ	ℵ	\mscrF	/scr f, script letter f
U+02133	ℷ	ℷ	ℷ	ℷ	ℷ	ℷ	\mscrM	physics m-matrix (script capital m)
U+02134		ℹ	ℹ	ℹ	ℹ		\mscro	order of (script small o)
U+02135	ℰ	ℰ	ℰ	ℰ	ℰ	ℰ	\aleph <sup>(p)</sup>	aleph, hebrew
U+02136	ℱ	ℱ	ℱ	ℱ	ℱ	ℱ	\beth <sup>(a)</sup>	beth, hebrew
U+02137	Ⅎ	Ⅎ	Ⅎ	Ⅎ	Ⅎ	Ⅎ	\gimel <sup>(a)</sup>	gimel, hebrew
U+02138	ℴ	ℴ	ℴ	ℴ	ℴ	ℴ	\daleth <sup>(a)</sup>	daleth, hebrew
U+0213D	ℴ	ℴ	ℴ	ℴ	ℴ	ℴ	\Bbbgamma	double-struck small gamma
U+0213E	ℴ	ℴ	ℴ	ℴ	ℴ	ℴ	\BbbGamma	double-struck capital gamma
U+0213F	ℴ	ℴ	ℴ	ℴ	ℴ	ℴ	\BbbPi	double-struck capital pi
U+02202	∂	∂	∂	∂	∂	∂	\partial <sup>(p)</sup>	partial differential
U+02207	∇	∇	∇	∇	∇	∇	\nabla <sup>(p)</sup>	nabla, del, hamilton operator
U+1D6A4	ℐ	ℐ	ℐ	ℐ	ℐ	ℐ	\imath <sup>(p)</sup>	mathematical italic small dot-less i
U+1D6A5	ℐ	ℐ	ℐ	ℐ		ℐ	\jmath <sup>(p)</sup>	mathematical italic small dot-less j
U+1D6C1	∇	∇	∇	∇	∇	∇	\mbfnabla	mathematical bold nabla
U+1D6FB	∇	∇	∇	∇	∇		\mitnabla	mathematical italic nabla
U+1D735	∇	∇	∇	∇	∇		\mbfitnabla	mathematical bold italic nabla
U+1D76F	∇	∇	∇	∇	∇		\mbfsansnabla	mathematical sans-serif bold nabla

USV	L	S	E	P	A	N	Macro	Description
U+1D7A9	↴	↴	↴	↴	↴		<code>\mbfitsansnabla</code>	mathematical sans-serif bold italic nabla
U+1D7CA		<b>F</b>					<code>\mbfDigamma</code>	mathematical bold capital digamma
U+1D7CB		<b>f</b>					<code>\mbfdigamma</code>	mathematical bold small digamma