Symbols defined by unicode-math

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Modified (df) to show XCharter 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)[1]

M Latin Modern Math (1602)

S STIX Two Math (2447)

E Erewhon Math (1679)

X XCharter Math (1667)

P TeX Gyre Pagella Math (1655)

L Libertinus Math (1660)

G Garamond Math (1647)

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

Note that this list of fonts is not intended to be exhaustive but I am happy to add new fonts by request if they are distributed in TeX Live.[2]

Contents

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[1]Be aware that 48 lowercase latin letters are missing in *Script* and *BoldScript* shapes for both Latin Modern, Erewhon and XCharter, compared to the other four fonts. In addition, XCharter has no lowercase Blackboard Bold (except k).

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

1 Opening symbols, \mathopen

USV	M	S	E	X	P	L	G	Macro	Description
U+00028	(	(	(	(	(	(	(	\lparen	left parenthesis
U+0005B	[	[	[	[	[	[	[	\lbrack	left square bracket
U+0007B	{	{	{	{	{	{	{	\lbrace(p)	left curly bracket
U+0221A	√	√	√	√	√	√	√	\sqrt(p)	radical
U+0221B		³√	³√	³√		³√		\cuberoot	cube root
U+0221C		⁴√	⁴√	⁴√		⁴√		\fourthroot	fourth root
U+02308	⌈	⌈	⌈	⌈	⌈	⌈	⌈	\lceil(p)	left ceiling
U+0230A	⌊	⌊	⌊	⌊	⌊	⌊	⌊	\lfloor(p)	left floor
U+0231C	⌜	⌜	⌜	⌜	⌜	⌜	⌜	\ulcorner	upper left corner
U+0231E	⌞	⌞	⌞	⌞	⌞	⌞	⌞	\llcorner	lower left corner
U+023B0		∫	∫	∫		∫		\lmoustache(p)	upper left or lower right curly bracket section
U+02772		❲						\lbrbrak	light left tortoise shell bracket ornament
U+027C5		⟅						\lbag	left s-shaped bag delimiter
U+027CC		⟌						\longdivision	long division
U+027E6	⟦	⟦	⟦	⟦	⟦	⟦	⟦	\lBrack	mathematical left white square bracket
U+027E8	⟨	⟨	⟨	⟨	⟨	⟨	⟨	\langle(p)	mathematical left angle bracket
U+027EA	⟪	⟪	⟪	⟪	⟪	⟪	⟪	\lAngle	mathematical left double angle bracket
U+027EC		⟬				⟬		\Lbrbrak	mathematical left white tortoise shell bracket
U+027EE	⟮	⟮	⟮	⟮	⟮	⟮	⟮	\lgroup(p)	mathematical left flattened parenthesis
U+02983		⦃						\lBrace	left white curly bracket
U+02985		⦅						\lParen	left white parenthesis
U+02987		⦇				⦇		\llparenthesis	z notation left image bracket
U+02989		⦉						\llangle	z notation left binding bracket
U+0298B		⦋						\lbrackubar	left square bracket with underbar
U+0298D		⦍						\lbrackultick	left square bracket with tick in top corner
U+0298F		⦏						\lbracklltick	left square bracket with tick in bottom corner
U+02991		⟨·						\langledot	left angle bracket with dot
U+02993		⦓						\lparenless	left arc less-than bracket

USV	M	S	E	X	P	L	G	Macro	Description
U+02995		⦕						`\Lparengtr`	double left arc greater-than bracket
U+02997		⦗						`\lblkbrbrak`	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	M	S	E	X	P	L	G	Macro	Description
U+00021	!	!	!	!	!	!	!	`\mathexclam`	exclamation mark
U+00029	)	)	)	)	)	)	)	`\rparen`	right parenthesis
U+0005D	]	]	]	]	]	]	]	`\rbrack`	right square bracket
U+0007D	}	}	}	}	}	}	}	`\rbrace`[p]	right curly bracket
U+02309	⌉	⌉	⌉	⌉	⌉	⌉	⌉	`\rceil`[p]	right ceiling
U+0230B	⌋	⌋	⌋	⌋	⌋	⌋	⌋	`\rfloor`[p]	right floor
U+0231D	⌝	⌝	⌝	⌝	⌝	⌝	⌝	`\urcorner`	upper right corner
U+0231F	⌟	⌟	⌟	⌟	⌟	⌟	⌟	`\lrcorner`	lower right corner
U+023B1		⎱	⎱	⎱		⎱		`\rmoustache`[p]	upper right or lower left curly bracket section
U+02773		❳						`\rbrbrak`	light right tortoise shell bracket ornament
U+027C6		⟆						`\rbag`	right s-shaped bag delimiter
U+027E7	⟧	⟧	⟧	⟧	⟧	⟧	⟧	`\rBrack`	mathematical right white square bracket
U+027E9	⟩	⟩	⟩	⟩	⟩	⟩	⟩	`\rangle`[p]	mathematical right angle bracket
U+027EB	⟫	⟫	⟫	⟫	⟫	⟫	⟫	`\rAngle`	mathematical right double angle bracket
U+027ED		⟭			⟭			`\Rbrbrak`	mathematical right white tortoise shell bracket
U+027EF	)	)	)	)	)	)	)	`\rgroup`[p]	mathematical right flattened parenthesis
U+02984		⦄						`\rBrace`	right white curly bracket
U+02986		⦆						`\rParen`	right white parenthesis
U+02988		⦈			⦈			`\rrparenthesis`	z notation right image bracket
U+0298A		⦊						`\rrangle`	z notation right binding bracket

USV	M	S	E	X	P	L	G	Macro	Description
U+0298C		]						\rbrackubar	right square bracket with underbar
U+0298E		]						\rbracklrtick	right square bracket with tick in bottom corner
U+02990		]						\rbrackurtick	right square bracket with tick in top corner
U+02992		⟩						\rangledot	right angle bracket with dot
U+02994		⟩						\rparengtr	right arc greater-than bracket
U+02996		⟫						\Rparenless	double right arc less-than bracket
U+02998		）						\rblkbrbrak	right black tortoise shell bracket
U+029D9		⧙						\rvzigzag	right wiggly fence
U+029DB		⧛						\Rvzigzag	right double wiggly fence
U+029FD		⟩				⟩		\rcurvyangle	right pointing curved angle bracket

3 Fence symbols, \mathfence

USV	M	S	E	X	P	L	G	Macro	Description
U+0007C	|	|	|	|	|	|	|	\vert[p]	vertical bar
U+02016	‖	‖	‖	‖	‖	‖	‖	\Vert[p]	double vertical bar
U+02980		⦀	⦀	⦀				\Vvert	triple vertical bar delimiter

4 Punctuation symbols, \mathpunct

USV	M	S	E	X	P	L	G	Macro	Description
U+0002C	,	,	,	,	,	,	,	\mathcomma	comma
U+0003A	:	:	:	:	:	:	:	\mathcolon	colon
U+0003B	;	;	;	;	;	;	;	\mathsemicolon	semicolon p:

5 'Over' symbols, `\mathover`

USV	M	S	E	X	P	L	G	Macro	Description
U+023B4	$\overline{x+y}$	$\overline{x+y}$	$\overline{x+y}$	$\overline{x+y}$	$\overline{x+y}$	$\overline{x+y}$	$\overline{x+y}$	`\overbracket`	top square bracket
U+023DC	$\overparen{x+y}$	$\overparen{x+y}$	$\overparen{x+y}$	$\overparen{x+y}$	$\overparen{x+y}$	$\overparen{x+y}$	$\overparen{x+y}$	`\overparen`	top parenthesis (mathematical use)
U+023DE	$\overbrace{x+y}$	$\overbrace{x+y}$	$\overbrace{x+y}$	$\overbrace{x+y}$	$\overbrace{x+y}$	$\overbrace{x+y}$	$\overbrace{x+y}$	`\overbrace`[(p)]	top curly bracket (mathematical use)

6 'Under' symbols, `\mathunder`

USV	M	S	E	X	P	L	G	Macro	Description
U+023B5	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	`\underbracket`	bottom square bracket
U+023DD	$\underparen{x+y}$	$\underparen{x+y}$	$\underparen{x+y}$	$\underparen{x+y}$	$\underparen{x+y}$	$\underparen{x+y}$	$\underparen{x+y}$	`\underparen`	bottom parenthesis (mathematical use)
U+023DF	$\underbrace{x+y}$	$\underbrace{x+y}$	$\underbrace{x+y}$	$\underbrace{x+y}$	$\underbrace{x+y}$	$\underbrace{x+y}$	$\underbrace{x+y}$	`\underbrace`[(p)]	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	M	S	E	X	P	L	G	Macro	Description
U+00300	$\grave{x}$	$\grave{x}$	$\grave{x}$	$\grave{x}$	$\grave{x}$	$\grave{x}$	$\grave{x}$	`\grave`[(p)]	grave accent
U+00301	$\acute{x}$	$\acute{x}$	$\acute{x}$	$\acute{x}$	$\acute{x}$	$\acute{x}$	$\acute{x}$	`\acute`[(p)]	acute accent
U+00302	$\hat{x}$	$\hat{x}$	$\hat{x}$	$\hat{x}$	$\hat{x}$	$\hat{x}$	$\hat{x}$	`\hat`[(p)]	circumflex accent
U+00303	$\tilde{x}$	$\tilde{x}$	$\tilde{x}$	$\tilde{x}$	$\tilde{x}$	$\tilde{x}$	$\tilde{x}$	`\tilde`[(p)]	tilde
U+00304	$\bar{x}$	$\bar{x}$	$\bar{x}$	$\bar{x}$	$\bar{x}$	$\bar{x}$	$\bar{x}$	`\bar`[(p)]	macron
U+00305	$\overline{x}$	$\overline{x}$	$\overline{x}$	$\overline{x}$	$\overline{x}$	$\overline{x}$	$\overline{x}$	`\overbar`	overbar embellishment
U+00306	$\breve{x}$	$\breve{x}$	$\breve{x}$	$\breve{x}$	$\breve{x}$	$\breve{x}$	$\breve{x}$	`\breve`[(p)]	breve
U+00307	$\dot{x}$	$\dot{x}$	$\dot{x}$	$\dot{x}$	$\dot{x}$	$\dot{x}$	$\dot{x}$	`\dot`[(p)]	dot above
U+00308	$\ddot{x}$	$\ddot{x}$	$\ddot{x}$	$\ddot{x}$	$\ddot{x}$	$\ddot{x}$	$\ddot{x}$	`\ddot`[(p)]	dieresis
U+00309	$\overset{?}{x}$	$\overset{?}{x}$	$\overset{?}{x}$	$\overset{?}{x}$	$\overset{?}{x}$	$\overset{?}{x}$	$\overset{?}{x}$	`\ovhook`	combining hook above
U+0030A	$\mathring{x}$	$\mathring{x}$	$\mathring{x}$	$\mathring{x}$	$\mathring{x}$	$\mathring{x}$	$\mathring{x}$	`\ocirc`	ring
U+0030C	$\check{x}$	$\check{x}$	$\check{x}$	$\check{x}$	$\check{x}$	$\check{x}$	$\check{x}$	`\check`[(p)]	caron
U+00310		$\candra{x}$			$\candra{x}$			`\candra`	candrabindu (non-spacing)

USV	M	S	E	X	P	L	G	Macro	Description
U+00312		$\dot{x}$				$\dot{x}$		\oturnedcomma	combining turned comma above
U+00315		$\dot{x}$				$\dot{x}$		\ocommatopright	combining comma above right
U+0031A		$\dot{x}$				$\dot{x}$		\droang	left angle above (non-spacing)
U+020D0	$\bar{x}$	$\bar{x}$	$\bar{x}$	$\bar{x}$	$\bar{x}$	$\bar{x}$	$\bar{x}$	\leftharpoonaccent	combining left harpoon above
U+020D1	$\vec{x}$	$\vec{x}$	$\vec{x}$	$\vec{x}$	$\vec{x}$	$\vec{x}$	$\vec{x}$	\rightharpoonaccent	combining right harpoon above
U+020D2	$\dagger$	$\dagger$	$\dagger$	$\dagger$	$\dagger$		$\dagger$	\vertoverlay	combining long vertical line overlay
U+020D7	$\vec{x}$	$\vec{x}$	$\vec{x}$	$\vec{x}$	$\vec{x}$	$\vec{x}$	$\vec{x}$	\vec[(p)]	combining right arrow above
U+020DB	$\dddot{x}$	$\dddot{x}$	$\dddot{x}$	$\dddot{x}$	$\dddot{x}$	$\dddot{x}$	$\dddot{x}$	\dddot	combining three dots above
U+020DC	$\ddddot{x}$	$\ddddot{x}$	$\ddddot{x}$	$\ddddot{x}$	$\ddddot{x}$	$\ddddot{x}$	$\ddddot{x}$	\ddddot	combining four dots above
U+020E7		$\bar{x}$						\annuity	combining annuity symbol
U+020E9	$\bar{x}$	$\bar{x}$	$\bar{x}$	$\bar{x}$	$\bar{x}$		$\bar{x}$	\widebridgeabove	combining wide bridge above
U+020F0	$\overset{*}{x}$	$\overset{*}{x}$	$\overset{*}{x}$	$\overset{*}{x}$	$\overset{*}{x}$		$\overset{*}{x}$	\asteraccent	combining asterisk above

8 Accents wide, \mathaccentwide

USV	M	S	E	X	P	L	G	Macro	Description
U+00302	$\widehat{x+y}$	$\widehat{x+y}$	$\widehat{x+y}$	$\widehat{x+y}$	$\widehat{x+y}$	$\widehat{x+y}$	$\widehat{x+y}$	\widehat[(p)]	circumflex accent
U+00303	$\widetilde{x+y}$	$\widetilde{x+y}$	$\widetilde{x+y}$	$\widetilde{x+y}$	$\widetilde{x+y}$	$\widetilde{x+y}$	$\widetilde{x+y}$	\widetilde[(p)]	tilde
U+00305	$\overline{x+y}$	$\overline{x+y}$	$\overline{x+y}$	$\overline{x+y}$	$\overline{x+y}$	$\overline{x+y}$	$x\bar{+}y$	\wideoverbar	stretchy overbar embellishment
U+00306	$\overbrace{x+y}$	$x\breve{+}y$	$\overbrace{x+y}$	$\overbrace{x+y}$	$\overbrace{x+y}$	$\overbrace{x+y}$	$\overbrace{x+y}$	\widebreve	stretchy breve
U+0030C	$\widecheck{x+y}$	$\widecheck{x+y}$	$\widecheck{x+y}$	$\widecheck{x+y}$	$\widecheck{x+y}$	$\widecheck{x+y}$	$\widecheck{x+y}$	\widecheck	stretchy caron
U+020D0	$\overleftharpoon{x+y}$	$\overleftharpoon{x+y}$	$\overleftharpoon{x+y}$	$\overleftharpoon{x+y}$	$\overleftharpoon{x+y}$	$\overleftharpoon{x+y}$	$\overleftharpoon{x+y}$	\overleftharpoon	combining left harpoon above
U+020D1	$\overrightharpoon{x+y}$	$\overrightharpoon{x+y}$	$\overrightharpoon{x+y}$	$\overrightharpoon{x+y}$	$\overrightharpoon{x+y}$	$\overrightharpoon{x+y}$	$\overrightharpoon{x+y}$	\overrightharpoon	combining right harpoon above
U+020D6	$\overleftarrow{x+y}$	$\overleftarrow{x+y}$	$\overleftarrow{x+y}$	$\overleftarrow{x+y}$	$\overleftarrow{x+y}$	$\overleftarrow{x+y}$	$\overleftarrow{x+y}$	\overleftarrow[(p)]	combining left arrow above
U+020D7	$\overrightarrow{x+y}$	$\overrightarrow{x+y}$	$\overrightarrow{x+y}$	$\overrightarrow{x+y}$	$\overrightarrow{x+y}$	$\overrightarrow{x+y}$	$\overrightarrow{x+y}$	\overrightarrow[(p)]	combining left arrow above
U+020E1	$\overleftrightarrow{x+y}$	$\overleftrightarrow{x+y}$	$\overleftrightarrow{x+y}$	$\overleftrightarrow{x+y}$	$\overleftrightarrow{x+y}$	$\overleftrightarrow{x+y}$	$\overleftrightarrow{x+y}$	\overleftrightarrow	combining left right arrow above

9 Bottom accents, \mathbotaccent

USV	M	S	E	X	P	L	G	Macro	Description
U+020E8	x	x	x	x	x		x	\threeunderdot	combining triple underdot

10 Bottom accents wide, `\mathbotaccentwide`

USV	M	S	E	X	P	L	G	Macro	Description
U+00330	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	\wideutilde	under tilde accent (multiple characters and non-spacing)
U+00332	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	\mathunderbar	combining low line
U+0034D	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	\underleftrightarrow	underleftrightarrow accent
U+020EC	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$		$x+y$	\underrightharpoondown	combining rightwards harpoon with barb downwards
U+020ED	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$		$x+y$	\underleftharpoondown	combining leftwards harpoon with barb downwards
U+020EE	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	\underleftarrow	combining left arrow below
U+020EF	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	\underrightarrow	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	M	S	E	X	P	L	G	Macro	Description
U+02140	$\sum_0^1$	$\sum_0^1$	$\sum_0^1$	$\sum_0^1$	$\sum_0^1$		$\sum_0^1$	\Bbbsum	double-struck n-ary summation
U+0220F	$\prod_0^1$	$\prod_0^1$	$\prod_0^1$	$\prod_0^1$	$\prod_0^1$	$\prod_0^1$	$\prod_0^1$	\prod$^{(p)}$	product operator
U+02210	$\coprod_0^1$	$\coprod_0^1$	$\coprod_0^1$	$\coprod_0^1$	$\coprod_0^1$	$\coprod_0^1$	$\coprod_0^1$	\coprod$^{(p)}$	coproduct operator
U+02211	$\sum_0^1$	$\sum_0^1$	$\sum_0^1$	$\sum_0^1$	$\sum_0^1$	$\sum_0^1$	$\sum_0^1$	\sum$^{(p)}$	summation operator
U+0222B	$\int_0^1$	$\int_0^1$	$\int_0^1$	$\int_0^1$	$\int_0^1$	$\int_0^1$	$\int_0^1$	\int$^{(p)}$	integral operator
U+0222C	$\iint_0^1$	$\iint_0^1$	$\iint_0^1$	$\iint_0^1$	$\iint_0^1$	$\iint_0^1$	$\iint_0^1$	\iint	double integral operator
U+0222D	$\iiint_0^1$	$\iiint_0^1$	$\iiint_0^1$	$\iiint_0^1$	$\iiint_0^1$	$\iiint_0^1$	$\iiint_0^1$	\iiint	triple integral operator
U+0222E	$\oint_0^1$	$\oint_0^1$	$\oint_0^1$	$\oint_0^1$	$\oint_0^1$	$\oint_0^1$	$\oint_0^1$	\oint$^{(p)}$	contour integral operator
U+0222F	$\oiint_0^1$	$\oiint_0^1$	$\oiint_0^1$	$\oiint_0^1$	$\oiint_0^1$	$\oiint_0^1$	$\oiint_0^1$	\oiint	double contour integral operator

USV	M	S	E	X	P	L	G	Macro	Description
U+02230	∰	∰	∰	∰	∰	∰	∰	\oiiint	triple contour integral operator
U+02231	∱	∱	∱	∱	∱	∱	∱	\intclockwise	clockwise integral
U+02232	∲	∲	∲	∲	∲	∲	∲	\varointclockwise	contour integral, clockwise
U+02233	∳	∳	∳	∳	∳	∳	∳	\ointctrclockwise	contour integral, anticlockwise
U+022C0	⋀	⋀	⋀	⋀	⋀	⋀	⋀	\bigwedge[p]	logical and operator
U+022C1	⋁	⋁	⋁	⋁	⋁	⋁	⋁	\bigvee[p]	logical or operator
U+022C2	⋂	⋂	⋂	⋂	⋂	⋂	⋂	\bigcap[p]	intersection operator
U+022C3	⋃	⋃	⋃	⋃	⋃	⋃	⋃	\bigcup[p]	union operator
U+027D5		⟕						\leftouterjoin	left outer join
U+027D6		⟖						\rightouterjoin	right outer join
U+027D7		⟗						\fullouterjoin	full outer join
U+027D8	⟘	⟘	⟘	⟘	⟘		⟘	\bigbot	large up tack
U+027D9	⟙	⟙	⟙	⟙	⟙		⟙	\bigtop	large down tack
U+029F8		⧸						\xsol	big solidus
U+029F9		⧹						\xbsol	big reverse solidus
U+02A00	⨀	⨀	⨀	⨀	⨀	⨀	⨀	\bigodot[p]	n-ary circled dot operator
U+02A01	⨁	⨁	⨁	⨁	⨁	⨁	⨁	\bigoplus[p]	n-ary circled plus operator
U+02A02	⨂	⨂	⨂	⨂	⨂	⨂	⨂	\bigotimes[p]	n-ary circled times operator
U+02A03	⨃	⨃	⨃	⨃	⨃	⨃	⨃	\bigcupdot	n-ary union operator with dot
U+02A04	⨄	⨄	⨄	⨄	⨄	⨄	⨄	\biguplus[p]	n-ary union operator with plus
U+02A05	⨅	⨅	⨅	⨅	⨅	⨅	⨅	\bigsqcap	n-ary square intersection operator
U+02A06	⨆	⨆	⨆	⨆	⨆	⨆	⨆	\bigsqcup[p]	n-ary square union operator
U+02A07		⨇						\conjquant	two logical and operator

USV	M	S	E	X	P	L	G	Macro	Description
U+02A08								\disjquant	two logical or operator
U+02A09								\bigtimes	n-ary times operator
U+02A0A								\modtwosum	modulo two sum
U+02A0B								\sumint	summation with integral
U+02A0C								\iiiint	quadruple integral operator
U+02A0D								\intbar	finite part integral
U+02A0E								\intBar	integral with double stroke
U+02A0F								\fint	integral average with slash
U+02A10								\cirfnint	circulation function
U+02A11								\awint	anticlockwise integration
U+02A12								\rppolint	line integration with rectangular path around pole
U+02A13								\scpolint	line integration with semicircular path around pole
U+02A14								\npolint	line integration not including the pole
U+02A15								\pointint	integral around a point operator
U+02A16								\sqint	quaternion integral operator
U+02A17								\intlarhk	integral with leftwards arrow with hook
U+02A18								\intx	integral with times sign
U+02A19								\intcap	integral with intersection
U+02A1A								\intcup	integral with union
U+02A1B								\upint	integral with overbar
U+02A1C								\lowint	integral with underbar
U+02A1D								\Join	join

USV	M	S	E	X	P	L	G	Macro	Description
U+02A1E		◁						\bigtriangleleft	large left triangle operator
U+02A1F		⨟						\zcmp	z notation schema composition
U+02A20		⨠						\zpipe	z notation schema piping
U+02A21		⨡						\zproject	z notation schema projection
U+02AFC		⫼						\biginterleave	large triple vertical bar operator
U+02AFF		⫿						\bigtalloblong	n-ary white vertical bar
U+1EEF0		⻰						\arabicmaj	arabic mathematical operator meem with hah with tatweel
U+1EEF1		ﻱ						\arabichad	arabic mathematical operator hah with dal

12   Binary relations, \mathbin

USV	M	S	E	X	P	L	G	Macro	Description
U+0002B	+	+	+	+	+	+	+	\mathplus	plus sign b:
U+000B1	±	±	±	±	±	±	±	\pm[p]	plus-or-minus sign
U+000B7	·	·	·	·	·	·	·	\cdotp[p]	/centerdot b: middle dot
U+000D7	×	×	×	×	×	×	×	\times[p]	multiply sign
U+000F7	÷	÷	÷	÷	÷	÷	÷	\div[p]	divide sign
U+02020	†	†	†	†	†	†	†	\dagger[p]	dagger relation
U+02021	‡	‡	‡	‡	‡	‡	‡	\ddagger[p]	double dagger relation
U+02022	●	•	●	●	●	•	•	\smblkcircle	/bullet b: round bullet, filled
U+02040		⌢		⌢				\tieconcat	character tie, z notation sequence concatenation
U+02044	⁄	⁄	⁄	⁄	⁄	⁄	⁄	\fracslash	fraction slash
U+0214B		⅋	⅋	⅋			⅋	\upand	turned ampersand
U+02212	−	−	−	−	−	−	−	\minus	minus sign
U+02213	∓	∓	∓	∓	∓	∓	∓	\mp[p]	minus-or-plus sign
U+02214	∔	∔	∔	∔	∔	∔	∔	\dotplus[a]	plus sign, dot above
U+02215	∕	∕	∕	∕	∕	∕	∕	\divslash	division slash
U+02216	∖	∖	∖	∖	∖	∖	∖	\setminus[p]	set minus (cf. reverse solidus)
U+02217	∗	∗	∗	∗	∗	∗	∗	\ast[p]	centered asterisk

USV	M	S	E	X	P	L	G	Macro	Description
U+02218	∘	∘	∘	∘	∘	∘	∘	`\vysmwhtcircle`	composite function (small circle)
U+02219	●	•	•	•	●	•	•	`\vysmblkcircle`	bullet operator
U+02227	∧	∧	∧	∧	∧	∧	∧	`\wedge`[p]	/wedge /land b: logical and
U+02228	∨	∨	∨	∨	∨	∨	∨	`\vee`[p]	/vee /lor b: logical or
U+02229	∩	∩	∩	∩	∩	∩	∩	`\cap`[p]	intersection
U+0222A	∪	∪	∪	∪	∪	∪	∪	`\cup`[p]	union or logical sum
U+02238	∸	∸	∸	∸	∸	∸	∸	`\dotminus`	minus sign, dot above
U+0223E	∾	∾	∾	∾	∾	∾	~	`\invlazys`	most positive [inverted lazy s]
U+02240	≀	≀	≀	≀	≀	≀	≀	`\wr`[p]	wreath product
U+0228C	⊌	⊌	⊌	⊌	⊌	⊌	⊌	`\cupleftarrow`	multiset
U+0228D	⊍	⊍	⊍	⊍	⊍	⊍	⊍	`\cupdot`	union, with dot
U+0228E	⊎	⊎	⊎	⊎	⊎	⊎	⊎	`\uplus`[p]	plus sign in union
U+02293	⊓	⊓	⊓	⊓	⊓	⊓	⊓	`\sqcap`[p]	square intersection
U+02294	⊔	⊔	⊔	⊔	⊔	⊔	⊔	`\sqcup`[p]	square union
U+02295	⊕	⊕	⊕	⊕	⊕	⊕	⊕	`\oplus`[p]	plus sign in circle
U+02296	⊖	⊖	⊖	⊖	⊖	⊖	⊖	`\ominus`[p]	minus sign in circle
U+02297	⊗	⊗	⊗	⊗	⊗	⊗	⊗	`\otimes`[p]	multiply sign in circle
U+02298	⊘	⊘	⊘	⊘	⊘	⊘	⊘	`\oslash`[p]	solidus in circle
U+02299	⊙	⊙	⊙	⊙	⊙	⊙	⊙	`\odot`[p]	middle dot in circle
U+0229A	⊚	⊚	⊚	⊚	⊚	⊚	⊚	`\circledcirc`[a]	small circle in circle
U+0229B	⊛	⊛	⊛	⊛	⊛	⊛	⊛	`\circledast`[a]	asterisk in circle
U+0229C	⊜	⊜	⊜	⊜	⊜	⊜	⊜	`\circledequal`	equal in circle
U+0229D	⊝	⊝	⊝	⊝	⊝	⊝	⊝	`\circleddash`[a]	hyphen in circle
U+0229E	⊞	⊞	⊞	⊞	⊞	⊞	⊞	`\boxplus`[a]	plus sign in box
U+0229F	⊟	⊟	⊟	⊟	⊟	⊟	⊟	`\boxminus`[a]	minus sign in box
U+022A0	⊠	⊠	⊠	⊠	⊠	⊠	⊠	`\boxtimes`[a]	multiply sign in box
U+022A1	⊡	⊡	⊡	⊡	⊡	⊡	⊡	`\boxdot`[a]	/dotsquare /boxdot b: small dot in box
U+022BA	⊺	⊺	⊺	⊺	⊺		⊺	`\intercal`[a]	intercal
U+022BB	⊻	⊻	⊻	⊻	⊻		⊻	`\veebar`[a]	logical or, bar below (large vee); exclusive disjunction
U+022BC	⊼	⊼	⊼	⊼	⊼		⊼	`\barwedge`[a]	bar, wedge (large wedge)
U+022BD	⊽	⊽	⊽	⊽	⊽		⊽	`\barvee`	bar, vee (large vee)
U+022C4	◇	◇	◇	◇	◇		◇	`\smwhtdiamond`	white diamond
U+022C5	⋅	⋅	⋅	⋅	⋅	⋅	⋅	`\cdot`[p]	small middle dot

USV	M	S	E	X	P	L	G	Macro	Description
U+022C6	⋆	⋆	⋆	⋆	⋆	⋆	⋆	\star[p]	small star, filled, low
U+022C7	⚹	⚹	⚹	⚹	⚹		⚹	\divideontimes[a]	division on times
U+022C9	⋉	⋉	⋉	⋉	⋉	⋉	⋉	\ltimes[a]	times sign, left closed
U+022CA	⋊	⋊	⋊	⋊	⋊	⋊	⋊	\rtimes[a]	times sign, right closed
U+022CB	⋋	⋋	⋋	⋋	⋋		⋋	\leftthreetimes[a]	left semidirect product
U+022CC	⋌	⋌	⋌	⋌	⋌		⋌	\rightthreetimes[a]	right semidirect product
U+022CE	⋎	⋎	⋎	⋎	⋎	⋎	⋎	\curlyvee[a]	curly logical or
U+022CF	⋏	⋏	⋏	⋏	⋏	⋏	⋏	\curlywedge[a]	curly logical and
U+022D2	⋒	⋒	⋒	⋒	⋒		⋒	\Cap[a]	/cap /doublecap b: double intersection
U+022D3	⋓	⋓	⋓	⋓	⋓		⋓	\Cup[a]	/cup /doublecup b: double union
U+02305	⊼	⊼	⊼	⊼	⊼			\varbarwedge	/barwedge b: logical and, bar above [projective (bar over small wedge)]
U+02306	⩞	⩞	⩞	⩞	⩞			\vardoublebarwedge	/doublebarwedge b: logical and, double bar above [perspective (double bar over small wedge)]
U+0233D		⌽						\obar	circle with vertical bar
U+025B3	△	△	△	△	△	△	△	\bigtriangleup[p]	big up triangle, open
U+025B7	▷	▷	▷	▷	▷	▷	▷	\triangleright[p]	(large) right triangle, open; z notation range restriction
U+025C1	◁	◁	◁	◁	◁	◁	◁	\triangleleft[p]	(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

USV	M	S	E	X	P	L	G	Macro	Description
U+029B8		⦸						\obslash	circled reverse solidus
U+029B9		⦹				⦹		\operp	circled perpendicular
U+029C0		⧀						\olessthan	circled less-than
U+029C1		⧁						\ogreaterthan	circled greater-than
U+029C4		⧄						\boxdiag	squared rising diagonal slash
U+029C5		⧅						\boxbslash	squared falling diagonal slash
U+029C6		⧆						\boxast	squared asterisk
U+029C7		⧇						\boxcircle	squared small circle
U+029C8		⧈						\boxbox	squared square
U+029CD		△						\triangleserifs	triangle with serifs at bottom
U+029D6		⧖						\hourglass	white hourglass
U+029D7		⧗						\blackhourglass	black hourglass
U+029E2		⧢						\shuffle	shuffle product
U+029EB		◆	◆	◆				\mdlgblklozenge	black lozenge
U+029F5		\	\	\		\	\	\reversesolidus	reverse solidus
U+029F6		⧶				⧶		\dsol	solidus with overbar
U+029F7		⧷				⧷		\rsolbar	reverse solidus with horizontal stroke
U+029FA		⧺						\doubleplus	double plus
U+029FB		⧻						\tripleplus	triple plus
U+029FE		⧾						\tplus	tiny
U+029FF		⧿						\tminus	miny
U+02A22		⨢						\ringplus	plus sign with small circle above
U+02A23		⨣						\plushat	plus sign with circumflex accent above
U+02A24		⨤						\simplus	plus sign with tilde above
U+02A25		⨥						\plusdot	plus sign with dot below
U+02A26		⨦						\plussim	plus sign with tilde below
U+02A27		⨧						\plussubtwo	plus sign with subscript two
U+02A28		⨨						\plustrif	plus sign with black triangle
U+02A29		⨩						\commaminus	minus sign with comma above
U+02A2A		⨪						\minusdot	minus sign with dot below
U+02A2B		⨫						\minusfdots	minus sign with falling dots
U+02A2C		⨬						\minusrdots	minus sign with rising dots
U+02A2D		⨭						\opluslhrim	plus sign in left half circle

USV	M	S	E	X	P	L	G	Macro	Description
U+02A2E		⊕						\oplusrhrim	plus sign in right half circle
U+02A2F	×	×	×	×	×		×	\vectimes	vector or cross product
U+02A30		⋇						\dottimes	multiplication sign with dot above
U+02A31		⨱						\timesbar	multiplication sign with underbar
U+02A32		⨲						\btimes	semidirect product with bottom closed
U+02A33		⨳						\smashtimes	smash product
U+02A34		⨴						\otimeslhrim	multiplication sign in left half circle
U+02A35		⨵						\otimesrhrim	multiplication sign in right half circle
U+02A36		⊗̂				⊗̂		\otimeshat	circled multiplication sign with circumflex accent
U+02A37		⨷						\Otimes	multiplication sign in double circle
U+02A38		⨸						\odiv	circled division sign
U+02A39		⨹						\triangleplus	plus sign in triangle
U+02A3A		⨺						\triangleminus	minus sign in triangle
U+02A3B		⨻						\triangletimes	multiplication sign in triangle
U+02A3C		⨼						\intprod	interior product
U+02A3D		⨽						\intprodr	righthand interior product
U+02A3E		⨾				⨾		\fcmp	z notation relational composition
U+02A3F	⨿	⨿	⨿	⨿	⨿	⨿	⨿	\amalg[(p)]	amalgamation or coproduct
U+02A40		⩀						\capdot	intersection with dot
U+02A41		⩁						\uminus	union with minus sign
U+02A42		⩂						\barcup	union with overbar
U+02A43		⩃						\barcap	intersection with overbar
U+02A44		⩄						\capwedge	intersection with logical and
U+02A45		⩅						\cupvee	union with logical or
U+02A46		⩆						\cupovercap	union above intersection
U+02A47		⩇						\capovercup	intersection above union
U+02A48		⩈						\cupbarcap	union above bar above intersection
U+02A49		⩉						\capbarcup	intersection above bar above union
U+02A4A		⩊						\twocups	union beside and joined with union

USV	M	S	E	X	P	L	G	Macro	Description
U+02A4B		⋒						\twocaps	intersection beside and joined with intersection
U+02A4C		⋓						\closedvarcup	closed union with serifs
U+02A4D		⋒						\closedvarcap	closed intersection with serifs
U+02A4E		⩎						\Sqcap	double square intersection
U+02A4F		⩏						\Sqcup	double square union
U+02A50		⩐						\closedvarcupsmashprod	closed union with serifs and smash product
U+02A51		⩑						\wedgeodot	logical and with dot above
U+02A52		⩒						\veeodot	logical or with dot above
U+02A53		⩓						\Wedge	double logical and
U+02A54		⩔						\Vee	double logical or
U+02A55		⩕						\wedgeonwedge	two intersecting logical and
U+02A56		⩖						\veeonvee	two intersecting logical or
U+02A57		⩗						\bigslopedvee	sloping large or
U+02A58		⩘						\bigslopedwedge	sloping large and
U+02A5A		⩚						\wedgemidvert	logical and with middle stem
U+02A5B		⩛						\veemidvert	logical or with middle stem
U+02A5C		⩜						\midbarwedge	ogical and with horizontal dash
U+02A5D		⩝						\midbarvee	logical or with horizontal dash
U+02A5E		⩞	⩞	⩞				\doublebarwedge[a]	logical and with double overbar
U+02A5F		⩟	⩟	⩟				\wedgebar	logical and with underbar
U+02A60		⩠						\wedgedoublebar	logical and with double underbar
U+02A61		⩡						\varveebar	small vee with underbar
U+02A62		⩢						\doublebarvee	logical or with double overbar
U+02A63		⩣						\veedoublebar	logical or with double underbar
U+02A64		⩤						\dsub	z notation domain antirestriction
U+02A65		⩥						\rsub	z notation range antirestriction
U+02A71		⩱						\eqqplus	equals sign above plus sign
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

USV	M	S	E	X	P	L	G	Macro	Description
U+02AFD	∥							\sslash	double solidus operator
U+02AFE	⫾							\talloblong	white vertical bar

13 Ordinary symbols, \mathord

USV	M	S	E	X	P	L	G	Macro	Description
U+00023	#	#	#	#	#	#	#	\mathoctothorpe	number sign
U+00024	$	$	$	$	$	$	$	\mathdollar	dollar sign
U+00025	%	%	%	%	%	%	%	\mathpercent	percent sign
U+00026	&	&	&	&	&	&	&	\mathampersand	ampersand
U+0002E	.	.	.	.	.	.	.	\mathperiod	full stop, period
U+0002F	/	/	/	/	/	/	/	\mathslash	solidus
U+0003F	?	?	?	?	?	?	?	\mathquestion	question mark
U+00040	@	@	@	@	@	@	@	\mathatsign	commercial at
U+0005C	\	\	\	\	\	\	\	\backslash[p]	reverse solidus
U+000A3	£	£	£	£	£	£	£	\mathsterling	pound sign
U+000A5	¥	¥	¥	¥	¥	¥	¥	\mathyen	yen sign
U+000A7	§	§	§	§	§	§	§	\mathsection	section symbol
U+000AC	¬	¬	¬	¬	¬	¬	¬	\neg[p]	/neg /lnot not sign
U+000B6	¶	¶	¶	¶	¶	¶	¶	\mathparagraph	paragraph symbol
U+001B5		Ƶ	Ƶ	Ƶ		Ƶ		\Zbar	impedance (latin capital letter z with stroke)
U+003F6		϶	϶	϶		϶		\upbackepsilon	greek reversed lunate epsilon symbol
U+02015	—	—	—	—	—	—	—	\horizbar	horizontal bar
U+02017	‗	‗	‗	‗	‗	‗	‗	\twolowline	double low line (spacing)
U+02025		‥		‥		‥		\enleadertwodots	double baseline dot (en leader)
U+02026	…	…	…	…	…	…	…	\unicodeellipsis	ellipsis (horizontal)
U+02032	′	′	′	′	′	′	′	\prime[p]	prime or minute, not super-scripted
U+02033	″	″	″	″	″	″	″	\dprime	double prime or second, not superscripted
U+02034	‴	‴	‴	‴	‴	‴	‴	\trprime	triple prime (not superscripted)
U+02035	‵	‵	‵	‵	‵	‵	‵	\backprime[a]	reverse prime, not super-scripted
U+02036	‶	‶	‶	‶	‶	‶	‶	\backdprime	double reverse prime, not su-perscripted

USV	M	S	E	X	P	L	G	Macro	Description
U+02037	‷	‷	‷	‷	‷	‷	‷	\backtrprime	triple reverse prime, not super-scripted
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 super-scripted
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	ℇ	ℇ	ℇ	ℇ	ℇ		ℇ	\Eulerconst	euler constant
U+0210E	ℎ	ℎ	ℎ	ℎ	ℎ	ℎ	ℎ	\Planckconst	planck constant
U+02127	℧	℧	℧	℧	℧	℧	℧	\mho	conductance
U+02132		Ⅎ	Ⅎ	Ⅎ				\Finv[a]	turned capital f
U+0213C	ℼ	ℼ	ℼ		ℼ		ℼ	\Bbbpi	double-struck small pi
U+02141		⅁	⅁	⅁				\Game[a]	turned sans-serif capital g
U+02142		⅂						\sansLturned	turned sans-serif capital l
U+02143		⅃						\sansLmirrored	reversed sans-serif capital l
U+02144		⅄						\Yup	turned sans-serif capital y
U+02145	ⅅ	ⅅ	ⅅ		ⅅ		ⅅ	\mitBbbD	double-struck italic capital d
U+02146	ⅆ	ⅆ	ⅆ		ⅆ		ⅆ	\mitBbbd	double-struck italic small d
U+02147	ⅇ	ⅇ	ⅇ		ⅇ		ⅇ	\mitBbbe	double-struck italic small e
U+02148	ⅈ	ⅈ	ⅈ		ⅈ		ⅈ	\mitBbbi	double-struck italic small i
U+02149	ⅉ	ⅉ	ⅉ		ⅉ		ⅉ	\mitBbbj	double-struck italic small j
U+0214A		⅊						\PropertyLine	property line
U+021A8		↨				↨	↨	\updownarrowbar	up down arrow with base (per-pendicular)
U+021B4	↴	↴	↴		↴	↴	↴	\linefeed	rightwards arrow with corner downwards
U+021B5	↵	↵	↵		↵	↵	↵	\carriagereturn	downwards arrow with corner leftward = carriage return
U+021B8		↸				↸	↸	\barovernorthwestarrow	north west arrow to long bar
U+021B9		↹				↹	↹	\barleftarrowrightarrowbar	leftwards arrow to bar over rightwards arrow to bar

USV	M	S	E	X	P	L	G	Macro	Description
U+021BA	↺	↺	↺	↺	↺	↺	↺	\acwopencirclearrow	anticlockwise open circle arrow
U+021BB	↻	↻	↻	↻	↻	↻	↻	\cwopencirclearrow	clockwise open circle arrow
U+021DE		⇞				⇞	⇞	\nHuparrow	upwards arrow with double stroke
U+021DF		⇟				⇟	⇟	\nHdownarrow	downwards arrow with double stroke
U+021E0		⇠	⇠	⇠		⇠	⇠	\leftdasharrow	leftwards dashed arrow
U+021E1		⇡	⇡	⇡		⇡	⇡	\updasharrow	upwards dashed arrow
U+021E2		⇢	⇢	⇢		⇢	⇢	\rightdasharrow	rightwards dashed arrow
U+021E3		⇣	⇣	⇣		⇣	⇣	\downdasharrow	downwards dashed arrow
U+021E6	⇐	⇐	⇐	⇐	⇐	⇐	⇐	\leftwhitearrow	leftwards white arrow
U+021E7	⇑	⇑	⇑	⇑	⇑	⇑	⇑	\upwhitearrow	upwards white arrow
U+021E8	⇒	⇒	⇒	⇒	⇒	⇒	⇒	\rightwhitearrow	rightwards white arrow
U+021E9	⇓	⇓	⇓	⇓	⇓	⇓	⇓	\downwhitearrow	downwards white arrow
U+021EA		⇧				⇧	⇧	\whitearrowupfrombar	upwards white arrow from bar
U+02200	∀	∀	∀	∀	∀	∀	∀	\forall[p]	for all
U+02201	∁	∁	∁	∁	∁	∁	∁	\complement[a]	complement sign
U+02203	∃	∃	∃	∃	∃	∃	∃	\exists[p]	at least one exists
U+02204	∄	∄	∄	∄	∄	∄	∄	\nexists[a]	negated exists
U+02205	∅	∅	∅	∅	∅	∅	∅	\varnothing[a]	circle, slash
U+02206	∆	∆	∆	∆	∆	∆	∆	\increment	laplacian (delta; nabla^2)
U+0220E	∎	∎	∎	∎	∎	∎	∎	\QED	end of proof
U+0221A	√	√	√	√	√	√	√	\surd[p]	radical
U+0221E	∞	∞	∞	∞	∞	∞	∞	\infty[p]	infinity
U+0221F	∟	∟	∟	∟	∟	∟	∟	\rightangle	right (90 degree) angle
U+02220	∠	∠	∠	∠	∠	∠	∠	\angle[p]	angle
U+02221	∡	∡	∡	∡	∡	∡	∡	\measuredangle[a]	angle-measured
U+02222	∢	∢	∢	∢	∢	∢	∢	\sphericalangle[a]	angle-spherical
U+02234	∴	∴	∴	∴	∴	∴	∴	\therefore[a]	therefore
U+02235	∵	∵	∵	∵	∵	∵	∵	\because[a]	because
U+0223F	∿	∿	∿	∿	∿	∿	∿	\sinewave	sine wave
U+022A4	⊤	⊤	⊤	⊤	⊤	⊤	⊤	\top[p]	top
U+022A5	⊥	⊥	⊥	⊥	⊥	⊥	⊥	\bot[p]	bottom
U+022B9	⊹	⊹	⊹	⊹	⊹		⊹	\hermitmatrix	hermitian conjugate matrix
U+022BE	⊾	⊾	⊾	⊾	⊾		⊾	\measuredrightangle	right angle-measured [with arc]
U+022BF	⊿	⊿	⊿	⊿	⊿		⊿	\varlrtriangle	right triangle

USV	M	S	E	X	P	L	G	Macro	Description
U+022EF	⋯	⋯	⋯	⋯	⋯	⋯	⋯	\unicodedots	three dots, centered
U+02300	⌀	⌀	⌀	⌀	⌀	⌀	⌀	\diameter	diameter sign
U+02302		⌂				⌂		\house	house
U+02310	⌐	⌐	⌐	⌐	⌐	⌐	⌐	\invnot	reverse not
U+02311		⌑						\sqlozenge	square lozenge
U+02312		⌒						\profline	profile of a line
U+02313		⌓						\profsurf	profile of a surface
U+02317		⌗						\viewdata	viewdata square
U+02319	⌙	⌙	⌙	⌙	⌙		⌙	\turnednot	turned not sign
U+02320	⌠	⌠	⌠	⌠	⌠	⌠		\inttop	top half integral
U+02321	⌡	⌡	⌡	⌡	⌡	⌡		\intbottom	bottom half integral
U+0232C		⌬						\varhexagonlrbonds	six carbon ring, corner down, double bonds lower right etc
U+02332		⌲						\conictaper	conical taper
U+02336		⌶						\topbot	top and bottom
U+02340		⍀						\APLnotbackslash	apl functional symbol backslash bar
U+02353		⍓						\APLboxupcaret	boxed up caret
U+02370		⍰						\APLboxquestion	boxed question mark
U+0237C		⍼						\rangledownzigzagarrow	right angle with downwards zigzag arrow
U+02394		⎔						\hexagon	horizontal benzene ring [hexagon flat open]
U+0239B	⎛	⎛	⎛	⎛	⎛	⎛	⎛	\lparenuend	left parenthesis upper hook
U+0239C	⎜	⎜	⎜	⎜	⎜	⎜	⎜	\lparenextender	left parenthesis extension
U+0239D	⎝	⎝	⎝	⎝	⎝	⎝	⎝	\lparenlend	left parenthesis lower hook
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

USV	M	S	E	X	P	L	G	Macro	Description
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
U+023A8								\lbracemid	left curly bracket middle piece
U+023A9								\lbracelend	left curly bracket lower hook
U+023AA								\vbraceextender	curly bracket extension
U+023AB								\rbraceuend	right curly bracket upper hook
U+023AC								\rbracemid	right curly bracket middle piece
U+023AD								\rbracelend	right curly bracket lower hook
U+023AE								\intextender	integral extension
U+023AF								\harrowextender	horizontal line extension (used to extend arrows)
U+023B2								\sumtop	summation top
U+023B3								\sumbottom	summation bottom
U+023B6								\bbrktbrk	bottom square bracket over top square bracket
U+023B7								\sqrtbottom	radical symbol bottom
U+023B8								\lvboxline	left vertical box line
U+023B9								\rvboxline	right vertical box line
U+023CE								\varcarriagereturn	return symbol
U+023E0								\obrbrak	top tortoise shell bracket (mathematical use)

USV	M	S	E	X	P	L	G	Macro	Description
U+023E1	⏡	⏡			⏡		⏡	\ubrbrak	bottom tortoise shell bracket (mathematical use)
U+023E2		⏢						\trapezium	white trapezium
U+023E3		⏣						\benzenr	benzene ring with circle
U+023E4		⏤						\strns	straightness
U+023E5		⏥						\fltns	flatness
U+023E6		⏦						\accurrent	ac current
U+023E7		⏧						\elinters	electrical intersection
U+02422	␢	␢	␢	␢	␢			\blanksymbol	blank symbol
U+02423	␣	␣	␣	␣	␣	␣		\mathvisiblespace	open box
U+02506		┆						\bdtriplevdash	doubly broken vert
U+02580		▀						\blockuphalf	upper half block
U+02584		▄						\blocklowhalf	lower half block
U+02588	■	█			■		■	\blockfull	full block
U+0258C		▌						\blocklefthalf	left half block
U+02590		▐						\blockrighthalf	right half block
U+02591	░	░			░			\blockqtrshaded	25% shaded block
U+02592	▒	▒			▒			\blockhalfshaded	50% shaded block
U+02593	▓	▓			▓			\blockthreeqtrshaded	75% shaded block
U+025A0	■	■	■	■	■	■	■	\mdlgblksquare	square, filled
U+025A1	□	□	□	□	□	□	□	\mdlgwhtsquare	square, open
U+025A2		▢						\squoval	white square with rounded corners
U+025A3		▣					▣	\blackinwhitesquare	white square containing black small square
U+025A4		▤						\squarehfill	square, horizontal rule filled
U+025A5		▥						\squarevfill	square, vertical rule filled
U+025A6		▦						\squarehvfill	square with orthogonal crosshatch fill
U+025A7		▧						\squarenwsefill	square, nw-to-se rule filled
U+025A8		▨						\squareneswfill	square, ne-to-sw rule filled
U+025A9		▩						\squarecrossfill	square with diagonal crosshatch fill
U+025AA	▪	▪	▪	▪	▪		▪	\smblksquare	/blacksquare - sq bullet, filled
U+025AB	▫	▫	▫	▫	▫		▫	\smwhtsquare	white small square
U+025AC	▬	▬	▬	▬	▬		▬	\hrectangleblack	black rectangle
U+025AD	▭	▭	▭	▭	▭		▭	\hrectangle	horizontal rectangle, open

USV	M	S	E	X	P	L	G	Macro	Description
U+025AE		■					▪	\vrectangleblack	black vertical rectangle
U+025AF		▯					▯	\vrectangle	rectangle, white (vertical)
U+025B0		▰						\parallelogramblack	black parallelogram
U+025B1		▱						\parallelogram	parallelogram, open
U+025B2	▲	▲	▲	▲	▲	▲	▲	\bigblacktriangleup	black up-pointing triangle
U+025B4		▲	▲	▲				\blacktriangle[a]	up triangle, filled
U+025B6	▶	▶	▶	▶	▶	▶	▶	\blacktriangleright[a]	(large) right triangle, filled
U+025B8		▶	▶	▶				\smallblacktriangleright	right triangle, filled
U+025B9		▷	▷	▷				\smalltriangleright	right triangle, open
U+025BA		▶						\blackpointerright	black right-pointing pointer
U+025BB		▷						\whitepointerright	white right-pointing pointer
U+025BC	▼	▼	▼	▼	▼	▼	▼	\bigblacktriangledown	big down triangle, filled
U+025BD	▽	▽	▽	▽	▽	▽	▽	\bigtriangledown[p]	big down triangle, open
U+025BE		▼	▼	▼				\blacktriangledown[a]	down triangle, filled
U+025BF		▽	▽	▽				\triangledown[a]	down triangle, open
U+025C0	◀	◀	◀	◀	◀	◀	◀	\blacktriangleleft[a]	(large) left triangle, filled
U+025C2		◀	◀	◀				\smallblacktriangleleft	left triangle, filled
U+025C3		◁	◁	◁				\smalltriangleleft	left triangle, open
U+025C4		◀						\blackpointerleft	black left-pointing pointer
U+025C5		◁						\whitepointerleft	white left-pointing pointer
U+025C6		◆	◆	◆		◆	◆	\mdlgblkdiamond	black diamond
U+025C7		◇	◇	◇		◇	◇	\mdlgwhtdiamond	white diamond; diamond, open
U+025C8		◈					◈	\blackinwhitediamond	white diamond containing black small diamond
U+025C9		◉				◉	◉	\fisheye	fisheye
U+025CA	◊	◊	◊	◊	◊	◊	◊	\mdlgwhtlozenge	lozenge or total mark
U+025CC		◌						\dottedcircle	dotted circle
U+025CD		◍						\circlevertfill	circle with vertical fill
U+025CE		◎				◎	◎	\bullseye	bullseye
U+025CF	●	●	●	●	●	●	●	\mdlgblkcircle	circle, filled
U+025D0		◐				◐	◐	\circlelefthalfblack	circle, filled left half [harvey ball]
U+025D1		◑				◑	◑	\circlerighthalfblack	circle, filled right half
U+025D2		◒				◒	◒	\circlebottomhalfblack	circle, filled bottom half
U+025D3		◓				◓	◓	\circletophalfblack	circle, filled top half

USV	M	S	E	X	P	L	G	Macro	Description
U+025D4		◔				◔	◔	\circleurquadblack	circle with upper right quadrant black
U+025D5		◕				◕	◕	\blackcircleulquadwhite	circle with all but upper left quadrant black
U+025D6		◖				◖	◖	\blacklefthalfcircle	left half black circle
U+025D7		◗				◗	◗	\blackrighthalfcircle	right half black circle
U+025D8		◘						\inversebullet	inverse bullet
U+025D9		◙						\inversewhitecircle	inverse white circle
U+025DA		◚						\invwhiteupperhalfcircle	upper half inverse white circle
U+025DB		◛						\invwhitelowerhalfcircle	lower half inverse white circle
U+025DC		◜						\ularc	upper left quadrant circular arc
U+025DD		◝						\urarc	upper right quadrant circular arc
U+025DE		◞						\lrarc	lower right quadrant circular arc
U+025DF		◟						\llarc	lower left quadrant circular arc
U+025E0		◠						\topsemicircle	upper half circle
U+025E1		◡						\botsemicircle	lower half circle
U+025E2		◢						\lrblacktriangle	lower right triangle, filled
U+025E3		◣						\llblacktriangle	lower left triangle, filled
U+025E4		◤						\ulblacktriangle	upper left triangle, filled
U+025E5		◥						\urblacktriangle	upper right triangle, filled
U+025E6	◦	◦	◦	◦	◦	◦	◦	\smwhtcircle	white bullet
U+025E7		◧					◧	\squareleftblack	square, filled left half
U+025E8		◨					◨	\squarerightblack	square, filled right half
U+025E9		◩					◩	\squareulblack	square, filled top left corner
U+025EA		◪					◪	\squarelrblack	square, filled bottom right corner
U+025EC		◬						\trianglecdot	triangle with centered dot
U+025ED		◭					◭	\triangleleftblack	up-pointing triangle with left half black
U+025EE		◮					◮	\trianglerightblack	up-pointing triangle with right half black
U+025EF	◯	◯	◯	◯	◯		◯	\lgwhtcircle	large circle
U+025F0		◰						\squareulquad	white square with upper left quadrant
U+025F1		◱						\squarellquad	white square with lower left quadrant
U+025F2		◲						\squarelrquad	white square with lower right quadrant

USV	M	S	E	X	P	L	G	Macro	Description
U+025F3		◳						\squareurquad	white square with upper right quadrant
U+025F4		◴						\circleulquad	white circle with upper left quadrant
U+025F5		◵						\circlellquad	white circle with lower left quadrant
U+025F6		◶						\circlelrquad	white circle with lower right quadrant
U+025F7		◷						\circleurquad	white circle with upper right quadrant
U+025F8		◸						\ultriangle	upper left triangle
U+025F9		◹						\urtriangle	upper right triangle
U+025FA		◺						\lltriangle	lower left triangle
U+025FB		◻	◻	◻				\mdwhtsquare	white medium square
U+025FC		◼	◼	◼				\mdblksquare	black medium square
U+025FD		◽	◽	◽				\mdsmwhtsquare	white medium small square
U+025FE		◾	◾	◾				\mdsmblksquare	black medium small square
U+025FF		◿						\lrtriangle	lower right triangle
U+02605		★	★	★		★	★	\bigstar[a]	star, filled
U+02606		☆					☆	\bigwhitestar	star, open
U+02609		☉				☉		\astrosun	sun
U+02621		☡						\danger	dangerous bend (caution sign)
U+0263B		☻				☻		\blacksmiley	black smiling face
U+0263C		☼				☼		\sun	white sun with rays
U+0263D		☽				☽		\rightmoon	first quarter moon
U+0263E		☾				☾		\leftmoon	last quarter moon
U+02640		♀				♀		\female	venus, female
U+02642		♂				♂		\male	mars, male
U+02660	♠	♠	♠	♠	♠	♠		\spadesuit[p]	spades suit symbol
U+02661	♡	♡	♡	♡	♡	♡		\heartsuit[p]	heart suit symbol
U+02662	♢	♢	♢	♢	♢	♢		\diamondsuit[p]	diamond suit symbol
U+02663	♣	♣	♣	♣	♣	♣		\clubsuit[p]	club suit symbol
U+02664	♤	♤	♤	♤	♤	♤		\varspadesuit	spade, white (card suit)
U+02665	♥	♥	♥	♥	♥	♥		\varheartsuit	filled heart (card suit)
U+02666	♦	♦	♦	♦	♦	♦		\vardiamondsuit	filled diamond (card suit)
U+02667	♧	♧	♧	♧	♧	♧		\varclubsuit	club, white (card suit)
U+02669		♩				♩		\quarternote	music note (sung text sign)

USV	M	S	E	X	P	L	G	Macro	Description
U+0266A	♪	♪			♪	♪		\eighthnote	eighth note
U+0266B		♫				♫		\twonotes	beamed eighth notes
U+0266D	♭	♭	♭	♭	♭	♭		\flat[(p)]	musical flat
U+0266E	♮	♮	♮	♮	♮	♮		\natural[(p)]	music natural
U+0266F	♯	♯	♯	♯	♯	♯		\sharp[(p)]	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
U+0279B		➛						\draftingarrow	right arrow with bold head (drafting)
U+027C0		∟						\threedangle	three dimensional angle
U+027C1		⟁						\whiteinwhitetriangle	white triangle containing small white triangle
U+027C3		⟃						\subsetcirc	open subset
U+027C4		⟄						\supsetcirc	open superset
U+027CB		╱	╱	╱				\diagup[(a)]	mathematical rising diagonal
U+027CD		╲	╲	╲				\diagdown[(a)]	mathematical falling diagonal

USV	M	S	E	X	P	L	G	Macro	Description
U+027D0		◇						\diamondcdot	white diamond with centred dot
U+0292B		✕						\rdiagovfdiag	rising diagonal crossing falling diagonal
U+0292C		✕						\fdiagovrdiag	falling diagonal crossing rising diagonal
U+0292D		⤭						\seovnearrow	south east arrow crossing north east arrow
U+0292E		⤮						\neovsearrow	north east arrow crossing south east arrow
U+0292F		⤯						\fdiagovnearrow	falling diagonal crossing north east arrow
U+02930		⤰						\rdiagovsearrow	rising diagonal crossing south east arrow
U+02931		⤱						\neovnwarrow	north east arrow crossing north west arrow
U+02932		⤲						\nwovnearrow	north west arrow crossing north east arrow
U+02934		⤴	⤴	⤴				\uprightcurvearrow	arrow pointing rightwards then curving upwards
U+02935		⤵	⤵	⤵				\downrightcurvedarrow	arrow pointing rightwards then curving downwards
U+02981		●	●	●				\mdsmblkcircle	z notation spot
U+02999		⋮						\fourvdots	dotted fence
U+0299A		⦚						\vzigzag	vertical zigzag line
U+0299B		⦛						\measuredangleleft	measured angle opening left
U+0299C		⦜						\rightanglesqr	right angle variant with square
U+0299D		⦝						\rightanglemdot	measured right angle with dot
U+0299E		⦞						\angles	angle with s inside
U+0299F		∡						\angdnr	acute angle
U+029A0		⦠						\gtlpar	spherical angle opening left
U+029A1		⦡						\sphericalangleup	spherical angle opening up
U+029A2		⦢						\turnangle	turned angle
U+029A3		⦣						\revangle	reversed angle
U+029A4		⦤						\angleubar	angle with underbar
U+029A5		⦥						\revangleubar	reversed angle with underbar
U+029A6		⦦						\wideangledown	oblique angle opening up
U+029A7		⦧						\wideangleup	oblique angle opening down
U+029A8		⦨						\measanglerutone	measured angle with open arm ending in arrow pointing up and right

USV	M	S	E	X	P	L	G	Macro	Description
U+029A9		⟁						\measanglelutonw	measured angle with open arm ending in arrow pointing up and left
U+029AA		⟁						\measanglerdtose	measured angle with open arm ending in arrow pointing down and right
U+029AB		⟁						\measangleldtosw	measured angle with open arm ending in arrow pointing down and left
U+029AC		⟁						\measangleurtone	measured angle with open arm ending in arrow pointing right and up
U+029AD		⟁						\measangleultonw	measured angle with open arm ending in arrow pointing left and up
U+029AE		⟁						\measangledrtose	measured angle with open arm ending in arrow pointing right and down
U+029AF		⟁						\measangledltosw	measured angle with open arm ending in arrow pointing left and down
U+029B0		⦰						\revemptyset	reversed empty set
U+029B1		⦱						\emptysetobar	empty set with overbar
U+029B2		⦲						\emptysetocirc	empty set with small circle above
U+029B3		⦳						\emptysetoarr	empty set with right arrow above
U+029B4		⦴						\emptysetoarrl	empty set with left arrow above
U+029BA		⊕				⊕		\obot	circle divided by horizontal bar and top half divided by vertical bar
U+029BB		⊗						\olcross	circle with superimposed x
U+029BC		⦼						\odotslashdot	circled anticlockwise-rotated division sign
U+029BD		⦽						\uparrowoncircle	up arrow through circle
U+029BE		⦾						\circledwhitebullet	circled white bullet
U+029BF		⦿						\circledbullet	circled bullet
U+029C2		⧂						\cirscir	circle with small circle to the right
U+029C3		⧃						\cirE	circle with two horizontal strokes to the right
U+029C9		⧉						\boxonbox	two joined squares
U+029CA		⧊						\triangleodot	triangle with dot above
U+029CB		⧋						\triangleubar	triangle with underbar
U+029CC		⧌						\triangles	s in triangle
U+029DC		⧜						\iinfin	incomplete infinity

USV	M	S	E	X	P	L	G	Macro	Description
U+029DD		∞						\tieinfty	tie over infinity
U+029DE		∞						\nvinfty	infinity negated with vertical bar
U+029E0		▢						\laplac	square with contoured outline
U+029E7		‡						\thermod	thermodynamic
U+029E8		◢						\downtriangleleftblack	down-pointing triangle with left half black
U+029E9		◣						\downtrianglerightblack	down-pointing triangle with right half black
U+029EA		◆						\blackdiamonddownarrow	black diamond with down arrow
U+029EC		⊙						\circledownarrow	white circle with down arrow
U+029ED		●						\blackcircledownarrow	black circle with down arrow
U+029EE		⊡						\errbarsquare	error-barred white square
U+029EF		∎						\errbarblacksquare	error-barred black square
U+029F0		◇						\errbardiamond	error-barred white diamond
U+029F1		◆						\errbarblackdiamond	error-barred black diamond
U+029F2		○						\errbarcircle	error-barred white circle
U+029F3		●						\errbarblackcircle	error-barred black circle
U+02AE1		⊥s						\perps	perpendicular with s
U+02AF1		⊤						\topcir	down tack with circle below
U+02B12		⬒						\squaretopblack	square with top half black
U+02B13		⬓						\squarebotblack	square with bottom half black
U+02B14		◩						\squareurblack	square with upper right diagonal half black
U+02B15		◪						\squarellblack	square with lower left diagonal half black
U+02B16		◈						\diamondleftblack	diamond with left half black
U+02B17		◈						\diamondrightblack	diamond with right half black
U+02B18		◈						\diamondtopblack	diamond with top half black
U+02B19		◈						\diamondbotblack	diamond with bottom half black
U+02B1A	▢	▢	▢	▢	▢		▢	\dottedsquare	dotted square
U+02B1B		■	■	■				\lgblksquare	black large square
U+02B1C		□	□	□				\lgwhtsquare	white large square
U+02B1D		▪	▪	▪				\vysmblksquare	black very small square
U+02B1E		▫	▫	▫				\vysmwhtsquare	white very small square
U+02B1F		⬟						\pentagonblack	black pentagon
U+02B20		⬠						\pentagon	white pentagon

USV	M	S	E	X	P	L	G	Macro	Description
U+02B21	⬡							\varhexagon	white hexagon
U+02B22	⬢							\varhexagonblack	black hexagon
U+02B23	⬣							\hexagonblack	horizontal black hexagon
U+02B24	●	●	●					\lgblkcircle	black large circle
U+02B25	◆	◆	◆					\mdblkdiamond	black medium diamond
U+02B26	◇	◇	◇					\mdwhtdiamond	white medium diamond
U+02B27	◆	◆	◆					\mdblklozenge	black medium lozenge
U+02B28	◇	◇	◇					\mdwhtlozenge	white medium lozenge
U+02B29	◆	◆	◆					\smblkdiamond	black small diamond
U+02B2A	◆	◆	◆					\smblklozenge	black small lozenge
U+02B2B	◇	◇	◇					\smwhtlozenge	white small lozenge
U+02B2C	⬬							\blkhorzoval	black horizontal ellipse
U+02B2D	⬭							\whthorzoval	white horizontal ellipse
U+02B2E	⬮							\blkvertoval	black vertical ellipse
U+02B2F	⬯							\whtvertoval	white vertical ellipse
U+02B50	☆							\medwhitestar	white medium star
U+02B51	★							\medblackstar	black medium star
U+02B52	☆							\smwhitestar	white small star
U+02B53	⬠							\rightpentagonblack	black right-pointing pentagon
U+02B54	⬠							\rightpentagon	white right-pointing pentagon
U+03012	〒							\postalmark	postal mark
U+03030	〰							\hzigzag	zigzag
U+1D7CE	0	0	0	0	0	0	0	\mbfzero	mathematical bold digit 0
U+1D7CF	1	1	1	1	1	1	1	\mbfone	mathematical bold digit 1
U+1D7D0	2	2	2	2	2	2	2	\mbftwo	mathematical bold digit 2
U+1D7D1	3	3	3	3	3	3	3	\mbfthree	mathematical bold digit 3
U+1D7D2	4	4	4	4	4	4	4	\mbffour	mathematical bold digit 4
U+1D7D3	5	5	5	5	5	5	5	\mbffive	mathematical bold digit 5
U+1D7D4	6	6	6	6	6	6	6	\mbfsix	mathematical bold digit 6
U+1D7D5	7	7	7	7	7	7	7	\mbfseven	mathematical bold digit 7
U+1D7D6	8	8	8	8	8	8	8	\mbfeight	mathematical bold digit 8
U+1D7D7	9	9	9	9	9	9	9	\mbfnine	mathematical bold digit 9
U+1D7D8	𝟘	𝟘	𝟘	𝟘	𝟘	𝟘	𝟘	\Bbbzero	mathematical double-struck digit 0
U+1D7D9	𝟙	𝟙	𝟙	𝟙	𝟙	𝟙	𝟙	\Bbbone	mathematical double-struck digit 1

USV	M	S	E	X	P	L	G	Macro	Description
U+1D7DA	2	2	2	2	2	2	2	\Bbbtwo	mathematical double-struck digit 2
U+1D7DB	3	3	3	3	3	3	3	\Bbbthree	mathematical double-struck digit 3
U+1D7DC	4	4	4	4	4	4	4	\Bbbfour	mathematical double-struck digit 4
U+1D7DD	5	5	5	5	5	5	5	\Bbbfive	mathematical double-struck digit 5
U+1D7DE	6	6	6	6	6	6	6	\Bbbsix	mathematical double-struck digit 6
U+1D7DF	7	7	7	7	7	7	7	\Bbbseven	mathematical double-struck digit 7
U+1D7E0	8	8	8	8	8	8	8	\Bbbeight	mathematical double-struck digit 8
U+1D7E1	9	9	9	9	9	9	9	\Bbbnine	mathematical double-struck digit 9
U+1D7E2	0	0	0	0	0	0	0	\msanszero	mathematical sans-serif digit 0
U+1D7E3	1	1	1	1	1	1	1	\msansone	mathematical sans-serif digit 1
U+1D7E4	2	2	2	2	2	2	2	\msanstwo	mathematical sans-serif digit 2
U+1D7E5	3	3	3	3	3	3	3	\msansthree	mathematical sans-serif digit 3
U+1D7E6	4	4	4	4	4	4	4	\msansfour	mathematical sans-serif digit 4
U+1D7E7	5	5	5	5	5	5	5	\msansfive	mathematical sans-serif digit 5
U+1D7E8	6	6	6	6	6	6	6	\msanssix	mathematical sans-serif digit 6
U+1D7E9	7	7	7	7	7	7	7	\msansseven	mathematical sans-serif digit 7
U+1D7EA	8	8	8	8	8	8	8	\msanseight	mathematical sans-serif digit 8
U+1D7EB	9	9	9	9	9	9	9	\msansnine	mathematical sans-serif digit 9
U+1D7EC	0	0	0	0	0	0	0	\mbfsanszero	mathematical sans-serif bold digit 0
U+1D7ED	1	1	1	1	1	1	1	\mbfsansone	mathematical sans-serif bold digit 1
U+1D7EE	2	2	2	2	2	2	2	\mbfsanstwo	mathematical sans-serif bold digit 2
U+1D7EF	3	3	3	3	3	3	3	\mbfsansthree	mathematical sans-serif bold digit 3
U+1D7F0	4	4	4	4	4	4	4	\mbfsansfour	mathematical sans-serif bold digit 4
U+1D7F1	5	5	5	5	5	5	5	\mbfsansfive	mathematical sans-serif bold digit 5
U+1D7F2	6	6	6	6	6	6	6	\mbfsanssix	mathematical sans-serif bold digit 6
U+1D7F3	7	7	7	7	7	7	7	\mbfsansseven	mathematical sans-serif bold digit 7
U+1D7F4	8	8	8	8	8	8	8	\mbfsanseight	mathematical sans-serif bold digit 8
U+1D7F5	9	9	9	9	9	9	9	\mbfsansnine	mathematical sans-serif bold digit 9

USV	M	S	E	X	P	L	G	Macro	Description
U+1D7F6	0	0	0	0	0	0	0	\mttzero	mathematical monospace digit 0
U+1D7F7	1	1	1	1	1	1	1	\mttone	mathematical monospace digit 1
U+1D7F8	2	2	2	2	2	2	2	\mtttwo	mathematical monospace digit 2
U+1D7F9	3	3	3	3	3	3	3	\mttthree	mathematical monospace digit 3
U+1D7FA	4	4	4	4	4	4	4	\mttfour	mathematical monospace digit 4
U+1D7FB	5	5	5	5	5	5	5	\mttfive	mathematical monospace digit 5
U+1D7FC	6	6	6	6	6	6	6	\mttsix	mathematical monospace digit 6
U+1D7FD	7	7	7	7	7	7	7	\mttseven	mathematical monospace digit 7
U+1D7FE	8	8	8	8	8	8	8	\mtteight	mathematical monospace digit 8
U+1D7FF	9	9	9	9	9	9	9	\mttnine	mathematical monospace digit 9

14 Relation symbols, \mathrel

USV	M	S	E	X	P	L	G	Macro	Description
U+0003C	<	<	<	<	<	<	<	\less	less-than sign r:
U+0003D	=	=	=	=	=	=	=	\equal	equals sign r:
U+0003E	>	>	>	>	>	>	>	\greater	greater-than sign r:
U+02050		↻						\closure	close up
U+02190	←	←	←	←	←	←	←	\leftarrow[p]	/leftarrow /gets a: leftward arrow
U+02191	↑	↑	↑	↑	↑	↑	↑	\uparrow[p]	upward arrow
U+02192	→	→	→	→	→	→	→	\rightarrow[p]	/rightarrow /to a: rightward arrow
U+02193	↓	↓	↓	↓	↓	↓	↓	\downarrow[p]	downward arrow
U+02194	↔	↔	↔	↔	↔	↔	↔	\leftrightarrow[p]	left and right arrow
U+02195	↕	↕	↕	↕	↕	↕	↕	\updownarrow[p]	up and down arrow
U+02196	↖	↖	↖	↖	↖	↖	↖	\nwarrow[p]	nw pointing arrow
U+02197	↗	↗	↗	↗	↗	↗	↗	\nearrow[p]	ne pointing arrow
U+02198	↘	↘	↘	↘	↘	↘	↘	\searrow[p]	se pointing arrow
U+02199	↙	↙	↙	↙	↙	↙	↙	\swarrow[p]	sw pointing arrow
U+0219A	↚	↚	↚	↚	↚	↚	↚	\nleftarrow[a]	not left arrow

USV	M	S	E	X	P	L	G	Macro	Description
U+0219B								\nrightarrow[a]	not right arrow
U+0219C								\leftwavearrow	left arrow-wavy
U+0219D								\rightwavearrow	right arrow-wavy
U+0219E								\twoheadleftarrow[a]	left two-headed arrow
U+0219F								\twoheaduparrow	up two-headed arrow
U+021A0								\twoheadrightarrow[a]	right two-headed arrow
U+021A1								\twoheaddownarrow	down two-headed arrow
U+021A2								\leftarrowtail[a]	left arrow-tailed
U+021A3								\rightarrowtail[a]	right arrow-tailed
U+021A4								\mapsfrom	maps to, leftward
U+021A5								\mapsup	maps to, upward
U+021A6								\mapsto[p]	maps to, rightward
U+021A7								\mapsdown	maps to, downward
U+021A9								\hookleftarrow[p]	left arrow-hooked
U+021AA								\hookrightarrow[p]	right arrow-hooked
U+021AB								\looparrowleft[a]	left arrow-looped
U+021AC								\looparrowright[a]	right arrow-looped
U+021AD								\leftrightsquigarrow[a]	left and right arr-wavy
U+021AE								\nleftrightarrow[a]	not left and right arrow
U+021AF								\downzigzagarrow	downwards zigzag arrow
U+021B0								\Lsh[a]	/lsh a:
U+021B1								\Rsh[a]	/rsh a:
U+021B2								\Ldsh	left down angled arrow
U+021B3								\Rdsh	right down angled arrow
U+021B6								\curvearrowleft[a]	left curved arrow
U+021B7								\curvearrowright[a]	right curved arrow
U+021BC								\leftharpoonup[p]	left harpoon-up
U+021BD								\leftharpoondown[p]	left harpoon-down
U+021BE								\upharpoonright[a]	/upharpoonright /restriction a: up harpoon-right
U+021BF								\upharpoonleft[a]	up harpoon-left
U+021C0								\rightharpoonup[p]	right harpoon-up
U+021C1								\rightharpoondown[p]	right harpoon-down
U+021C2								\downharpoonright[a]	down harpoon-right
U+021C3								\downharpoonleft[a]	down harpoon-left

USV	M	S	E	X	P	L	G	Macro	Description
U+021C4	⇄	⇄	⇄	⇄	⇄	⇆	⇄	\rightleftarrows[a]	right arrow over left arrow
U+021C5	⇅	⇅	⇅	⇅	⇅	⇅	⇅	\updownarrows	up arrow, down arrow
U+021C6	⇆	⇆	⇆	⇆	⇆	⇄	⇆	\leftrightarrows[a]	left arrow over right arrow
U+021C7	⇇	⇇	⇇	⇇	⇇	⇇	⇇	\leftleftarrows[a]	two left arrows
U+021C8	⇈	⇈	⇈	⇈	⇈	⇈	⇈	\upuparrows[a]	two up arrows
U+021C9	⇉	⇉	⇉	⇉	⇉	⇉	⇉	\rightrightarrows[a]	two right arrows
U+021CA	⇊	⇊	⇊	⇊	⇊	⇊	⇊	\downdownarrows[a]	two down arrows
U+021CB	⇋	⇋	⇋	⇋	⇋	⇋	⇋	\leftrightharpoons[a]	left harpoon over right
U+021CC	⇌	⇌	⇌	⇌	⇌	⇌	⇌	\rightleftharpoons[l]	right harpoon over left
U+021CD	⇍	⇍	⇍	⇍	⇍	⇍	⇍	\nLeftarrow[a]	not implied by
U+021CE	⇎	⇎	⇎	⇎	⇎	⇎	⇎	\nLeftrightarrow[a]	not left and right double arrows
U+021CF	⇏	⇏	⇏	⇏	⇏	⇏	⇏	\nRightarrow[a]	not implies
U+021D0	⇐	⇐	⇐	⇐	⇐	⇐	⇐	\Leftarrow[p]	is implied by
U+021D1	⇑	⇑	⇑	⇑	⇑	⇑	⇑	\Uparrow[p]	up double arrow
U+021D2	⇒	⇒	⇒	⇒	⇒	⇒	⇒	\Rightarrow[p]	implies
U+021D3	⇓	⇓	⇓	⇓	⇓	⇓	⇓	\Downarrow[p]	down double arrow
U+021D4	⇔	⇔	⇔	⇔	⇔	⇔	⇔	\Leftrightarrow[p]	left and right double arrow
U+021D5	⇕	⇕	⇕	⇕	⇕	⇕	⇕	\Updownarrow[p]	up and down double arrow
U+021D6	⇖	⇖	⇖	⇖	⇖	⇖	⇖	\Nwarrow	nw pointing double arrow
U+021D7	⇗	⇗	⇗	⇗	⇗	⇗	⇗	\Nearrow	ne pointing double arrow
U+021D8	⇘	⇘	⇘	⇘	⇘	⇘	⇘	\Searrow	se pointing double arrow
U+021D9	⇙	⇙	⇙	⇙	⇙	⇙	⇙	\Swarrow	sw pointing double arrow
U+021DA	⇚	⇚	⇚	⇚	⇚	⇚	⇚	\Lleftarrow[a]	left triple arrow
U+021DB	⇛	⇛	⇛	⇛	⇛	⇛	⇛	\Rrightarrow[a]	right triple arrow
U+021DC	↜	↜	↜	↜	↜	↜	↜	\leftsquigarrow	leftwards squiggle arrow
U+021DD	↝	↝	↝	↝	↝	↝	↝	\rightsquigarrow[a]	rightwards squiggle arrow
U+021E4		↤				↤	↤	\barleftarrow	leftwards arrow to bar
U+021E5		↦				↦	↦	\rightarrowbar	rightwards arrow to bar
U+021F4		⇴				⇴	⇴	\circleonrightarrow	right arrow with small circle
U+021F5	⇵	⇵	⇵	⇵	⇵	⇵	⇵	\downuparrows	downwards arrow leftwards of upwards arrow
U+021F6	⇶	⇶	⇶	⇶	⇶	⇶	⇶	\rightthreearrows	three rightwards arrows
U+021F7		↚				↚	↚	\nvleftarrow	leftwards arrow with vertical stroke
U+021F8		↛				↛	↛	\nvrightarrow	rightwards arrow with vertical stroke

USV	M	S	E	X	P	L	G	Macro	Description
U+021F9		↔				↔	↔	`\nvleftrightarrow`	left right arrow with vertical stroke
U+021FA		⇍				⇍	⇍	`\nVleftarrow`	leftwards arrow with double vertical stroke
U+021FB		⇏				⇏	⇏	`\nVrightarrow`	rightwards arrow with double vertical stroke
U+021FC		⇎				⇎	⇎	`\nVleftrightarrow`	left right arrow with double vertical stroke
U+021FD		←				←	←	`\leftarrowtriangle`	leftwards open-headed arrow
U+021FE		→				→	→	`\rightarrowtriangle`	rightwards open-headed arrow
U+021FF		↔				↔	↔	`\leftrightarrowtriangle`	left right open-headed arrow
U+02208	∈	∈	∈	∈	∈	∈	∈	`\in`[p]	set membership, variant
U+02209	∉	∉	∉	∉	∉	∉	∉	`\notin`[l]	negated set membership
U+0220A	∊	∊	∊	∊	∊	∊	∊	`\smallin`	set membership (small set membership)
U+0220B	∋	∋	∋	∋	∋	∋	∋	`\ni`[p]	contains, variant
U+0220C	∌	∌	∌	∌	∌	∌	∌	`\nni`	negated contains, variant
U+0220D	∍	∍	∍	∍	∍	∍	∍	`\smallni`	/ni /owns r: contains (small contains as member)
U+0221D	∝	∝	∝	∝	∝	∝	∝	`\propto`[p]	is proportional to
U+02223	∣	∣	∣	∣	∣	∣	∣	`\mid`[p]	/mid r:
U+02224	∤	∤	∤	∤	∤	∤	∤	`\nmid`[a]	negated mid
U+02225	∥	∥	∥	∥	∥	∥	∥	`\parallel`[p]	parallel
U+02226	∦	∦	∦	∦	∦	∦	∦	`\nparallel`[a]	not parallel
U+02236	∶	∶	∶	∶	∶	∶	∶	`\mathratio`	ratio
U+02237	∷	∷	∷	∷	∷	∷	∷	`\Colon`	two colons
U+02239	∹	∹	∹	∹	∹	∹	∹	`\dashcolon`	excess (-:)
U+0223A	∺	∺	∺	∺	∺	∺	∺	`\dotsminusdots`	minus with four dots, geometric properties
U+0223B	∻	∻	∻	∻	∻	∻	∻	`\kernelcontraction`	homothetic
U+0223C	∼	∼	∼	∼	∼	∼	∼	`\sim`[p]	similar
U+0223D	∽	∽	∽	∽	∽	∽	∽	`\backsim`[a]	reverse similar
U+02241	≁	≁	≁	≁	≁	≁	≁	`\nsim`[a]	not similar
U+02242	≂	≂	≂	≂	≂	≂	≂	`\eqsim`[a]	equals, similar
U+02243	≃	≃	≃	≃	≃	≃	≃	`\simeq`[p]	similar, equals
U+02244	≄	≄	≄	≄	≄	≄	≄	`\nsime`	not similar, equals
U+02243	≃	≃	≃	≃	≃	≃	≃	`\sime`	similar, equals (alias)
U+02244	≄	≄	≄	≄	≄	≄	≄	`\nsimeq`	not similar, equals (alias)

USV	M	S	E	X	P	L	G	Macro	Description
U+02245	≅	≅	≅	≅	≅	≅	≅	`\cong`[l]	congruent with
U+02246	≆	≆	≆	≆	≆	≆	≆	`\simneqq`	similar, not equals [vert only for 9573 entity]
U+02247	≇	≇	≇	≇	≇	≇	≇	`\ncong`[a]	not congruent with
U+02248	≈	≈	≈	≈	≈	≈	≈	`\approx`[p]	approximate
U+02249	≉	≉	≉	≉	≉	≉	≉	`\napprox`	not approximate
U+0224A	≊	≊	≊	≊	≊	≊	≊	`\approxeq`[a]	approximate, equals
U+0224B	≋	≋	≋	≋	≋	≋	≋	`\approxident`	approximately identical to
U+0224C	≌	≌	≌	≌	≌	≌	≌	`\backcong`	all equal to
U+0224D	≍	≍	≍	≍	≍	≍	≍	`\asymp`[p]	asymptotically equal to
U+0224E	≎	≎	≎	≎	≎		≎	`\Bumpeq`[a]	bumpy equals
U+0224F	≏	≏	≏	≏	≏		≏	`\bumpeq`[a]	bumpy equals, equals
U+02250	≐	≐	≐	≐	≐	≐	≐	`\doteq`[l]	equals, single dot above
U+02251	≑	≑	≑	≑	≑	≑	≑	`\Doteq`[a]	/doteqdot /doteq r: equals, even dots
U+02252	≒	≒	≒	≒	≒	≒	≒	`\fallingdotseq`[a]	equals, falling dots
U+02253	≓	≓	≓	≓	≓	≓	≓	`\risingdotseq`[a]	equals, rising dots
U+02254	≔	≔	≔	≔	≔	≔	≔	`\coloneq`	colon, equals
U+02255	≕	≕	≕	≕	≕	≕	≕	`\eqcolon`	equals, colon
U+02256	≖	≖	≖	≖	≖	≖	≖	`\eqcirc`[a]	circle on equals sign
U+02257	≗	≗	≗	≗	≗	≗		`\circeq`[a]	circle, equals
U+02258	≘	≘	≘	≘	≘	≘		`\arceq`	arc, equals; corresponds to
U+02259	≙	≙	≙	≙	≙	≙		`\wedgeq`	corresponds to (wedge, equals)
U+0225A	≚	≚	≚	≚	≚	≚		`\veeeq`	logical or, equals
U+0225B	≛	≛	≛	≛	≛	≛		`\stareq`	star equals
U+0225C	≜	≜	≜	≜	≜	≜		`\triangleq`[a]	triangle, equals
U+0225D	≝	≝	≝	≝	≝	≝		`\eqdef`	equals by definition
U+0225E	≞	≞	≞	≞	≞	≞		`\measeq`	measured by (m over equals)
U+0225F	≟	≟	≟	≟	≟	≟		`\questeq`	equal with questionmark
U+02260	≠	≠	≠	≠	≠	≠	≠	`\ne`[p]	/ne /neq r: not equal
U+02261	≡	≡	≡	≡	≡	≡	≡	`\equiv`[p]	identical with
U+02262	≢	≢	≢	≢	≢	≢	≢	`\nequiv`	not identical with
U+02263	≣	≣	≣	≣	≣	≣	≣	`\Equiv`	strict equivalence (4 lines)
U+02264	≤	≤	≤	≤	≤	≤	≤	`\leq`[p]	/leq /le r: less-than-or-equal
U+02265	≥	≥	≥	≥	≥	≥	≥	`\geq`[p]	/geq /ge r: greater-than-or-equal

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U+02266	≦	≦	≦	≦	≦	≦	≦	`\leqq`[a]	less, double equals
U+02267	≧	≧	≧	≧	≧	≧	≧	`\geqq`[a]	greater, double equals
U+02268	≨	≨	≨	≨	≨	≨	≨	`\lneqq`[a]	less, not double equals
U+02269	≩	≩	≩	≩	≩	≩	≩	`\gneqq`[a]	greater, not double equals
U+0226A	≪	≪	≪	≪	≪	≪	≪	`\ll`[p]	much less than, type 2
U+0226B	≫	≫	≫	≫	≫	≫	≫	`\gg`[p]	much greater than, type 2
U+0226C	≬	≬	≬	≬	≬	≬	≬	`\between`[a]	between
U+0226D	≭	≭	≭	≭	≭	≭	≭	`\nasymp`	not asymptotically equal to
U+0226E	≮	≮	≮	≮	≮	≮	≮	`\nless`[a]	not less-than
U+0226F	≯	≯	≯	≯	≯	≯	≯	`\ngtr`[a]	not greater-than
U+02270	≰	≰	≰	≰	≰	≰	≰	`\nleq`[a]	not less-than-or-equal
U+02271	≱	≱	≱	≱	≱	≱	≱	`\ngeq`[a]	not greater-than-or-equal
U+02272	≲	≲	≲	≲	≲	≲	≲	`\lesssim`[a]	less, similar
U+02273	≳	≳	≳	≳	≳	≳	≳	`\gtrsim`[a]	greater, similar
U+02274	≴	≴	≴	≴	≴	≴	≴	`\nlesssim`	not less, similar
U+02275	≵	≵	≵	≵	≵	≵	≵	`\ngtrsim`	not greater, similar
U+02276	≶	≶	≶	≶	≶	≶	≶	`\lessgtr`[a]	less, greater
U+02277	≷	≷	≷	≷	≷	≷	≷	`\gtrless`[a]	greater, less
U+02278	≸	≸	≸	≸	≸	≸	≸	`\nlessgtr`	not less, greater
U+02279	≹	≹	≹	≹	≹	≹	≹	`\ngtrless`	not greater, less
U+0227A	≺	≺	≺	≺	≺	≺	≺	`\prec`[p]	precedes
U+0227B	≻	≻	≻	≻	≻	≻	≻	`\succ`[p]	succeeds
U+0227C	≼	≼	≼	≼	≼	≼	≼	`\preccurlyeq`[a]	precedes, curly equals
U+0227D	≽	≽	≽	≽	≽	≽	≽	`\succcurlyeq`[a]	succeeds, curly equals
U+0227E	≾	≾	≾	≾	≾	≾	≾	`\precsim`[a]	precedes, similar
U+0227F	≿	≿	≿	≿	≿	≿	≿	`\succsim`[a]	succeeds, similar
U+02280	⊀	⊀	⊀	⊀	⊀	⊀	⊀	`\nprec`[a]	not precedes
U+02281	⊁	⊁	⊁	⊁	⊁	⊁	⊁	`\nsucc`[a]	not succeeds
U+02282	⊂	⊂	⊂	⊂	⊂	⊂	⊂	`\subset`[p]	subset or is implied by
U+02283	⊃	⊃	⊃	⊃	⊃	⊃	⊃	`\supset`[p]	superset or implies
U+02284	⊄	⊄	⊄	⊄	⊄	⊄	⊄	`\nsubset`	not subset, variant [slash negation]
U+02285	⊅	⊅	⊅	⊅	⊅	⊅	⊅	`\nsupset`	not superset, variant [slash negation]
U+02286	⊆	⊆	⊆	⊆	⊆	⊆	⊆	`\subseteq`[p]	subset, equals
U+02287	⊇	⊇	⊇	⊇	⊇	⊇	⊇	`\supseteq`[p]	superset, equals

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U+02288	⊈	⊈	⊈	⊈	⊈	⊈	⊈	\nsubseteq[a]	not subset, equals
U+02289	⊉	⊉	⊉	⊉	⊉	⊉	⊉	\nsupseteq[a]	not superset, equals
U+0228A	⊊	⊊	⊊	⊊	⊊	⊊	⊊	\subsetneq[a]	subset, not equals
U+0228B	⊋	⊋	⊋	⊋	⊋	⊋	⊋	\supsetneq[a]	superset, not equals
U+0228F	⊏	⊏	⊏	⊏	⊏	⊏	⊏	\sqsubset	square subset
U+02290	⊐	⊐	⊐	⊐	⊐	⊐	⊐	\sqsupset	square superset
U+02291	⊑	⊑	⊑	⊑	⊑	⊑	⊑	\sqsubseteq[p]	square subset, equals
U+02292	⊒	⊒	⊒	⊒	⊒	⊒	⊒	\sqsupseteq[p]	square superset, equals
U+022A2	⊢	⊢	⊢	⊢	⊢	⊢	⊢	\vdash[p]	vertical, dash
U+022A3	⊣	⊣	⊣	⊣	⊣	⊣	⊣	\dashv[p]	dash, vertical
U+022A6	⊦	⊦	⊦	⊦	⊦	⊦	⊦	\assert	assertion (vertical, short dash)
U+022A7	⊧	⊧	⊧	⊧	⊧	⊧	⊧	\models[p]	models (vertical, short double dash)
U+022A8	⊨	⊨	⊨	⊨	⊨	⊨	⊨	\vDash[a]	vertical, double dash
U+022A9	⊩	⊩	⊩	⊩	⊩	⊩	⊩	\Vdash[a]	double vertical, dash
U+022AA	⊪	⊪	⊪	⊪	⊪	⊪	⊪	\Vvdash[a]	triple vertical, dash
U+022AB	⊫	⊫	⊫	⊫	⊫	⊫	⊫	\VDash	double vert, double dash
U+022AC	⊬	⊬	⊬	⊬	⊬	⊬	⊬	\nvdash[a]	not vertical, dash
U+022AD	⊭	⊭	⊭	⊭	⊭	⊭	⊭	\nvDash[a]	not vertical, double dash
U+022AE	⊮	⊮	⊮	⊮	⊮	⊮	⊮	\nVdash[a]	not double vertical, dash
U+022AF	⊯	⊯	⊯	⊯	⊯	⊯	⊯	\nVDash[a]	not double vert, double dash
U+022B0		⋰					⋰	\prurel	element precedes under relation
U+022B1		⋱					⋱	\scurel	succeeds under relation
U+022B2	⊲	⊲	⊲	⊲	⊲	⊲	⊲	\vartriangleleft[a]	left triangle, open, variant
U+022B3	⊳	⊳	⊳	⊳	⊳	⊳	⊳	\vartriangleright[a]	right triangle, open, variant
U+022B4	⊴	⊴	⊴	⊴	⊴	⊴	⊴	\trianglelefteq[a]	left triangle, equals
U+022B5	⊵	⊵	⊵	⊵	⊵	⊵	⊵	\trianglerighteq[a]	right triangle, equals
U+022B6	⊶	⊶	⊶	⊶	⊶	⊶	⊶	\origof	original of
U+022B7	⊷	⊷	⊷	⊷	⊷	⊷	⊷	\imageof	image of
U+022B8	⊸	⊸	⊸	⊸	⊸		⊸	\multimap[a]	/multimap a:
U+022C8	⋈	⋈	⋈	⋈	⋈	⋈	⋈	\bowtie[p]	bowtie
U+022CD	⋍	⋍	⋍	⋍	⋍	⋍	⋍	\backsimeq[a]	reverse similar, equals
U+022D0	⋐	⋐	⋐	⋐	⋐		⋐	\Subset[a]	double subset
U+022D1	⋑	⋑	⋑	⋑	⋑		⋑	\Supset[a]	double superset
U+022D4		⋔	⋔	⋔			⋔	\pitchfork[a]	pitchfork

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U+022D5	⧥	⧥	⧥	⧥	⧥		⧥	\equalparallel	parallel, equal; equal or parallel
U+022D6	⋖	⋖	⋖	⋖	⋖	⋖	⋖	\lessdot[a]	less than, with dot
U+022D7	⋗	⋗	⋗	⋗	⋗	⋗	⋗	\gtrdot[a]	greater than, with dot
U+022D8	⋘	⋘	⋘	⋘	⋘	⋘	⋘	\lll[a]	/ll /lll /llless r: triple less-than
U+022D9	⋙	⋙	⋙	⋙	⋙	⋙	⋙	\ggg[a]	/ggg /gg /gggtr r: triple greater-than
U+022DA	⋚	⋚	⋚	⋚	⋚	⋚	⋚	\lesseqgtr[a]	less, equals, greater
U+022DB	⋛	⋛	⋛	⋛	⋛	⋛	⋛	\gtreqless[a]	greater, equals, less
U+022DC	⋜	⋜	⋜	⋜	⋜	⋜	⋜	\eqless	equal-or-less
U+022DD	⋝	⋝	⋝	⋝	⋝	⋝	⋝	\eqgtr	equal-or-greater
U+022DE	⋞	⋞	⋞	⋞	⋞	⋞	⋞	\curlyeqprec[a]	curly equals, precedes
U+022DF	⋟	⋟	⋟	⋟	⋟	⋟	⋟	\curlyeqsucc[a]	curly equals, succeeds
U+022E0	⋠	⋠	⋠	⋠	⋠	⋠	⋠	\npreccurlyeq	not precedes, curly equals
U+022E1	⋡	⋡	⋡	⋡	⋡	⋡	⋡	\nsucccurlyeq	not succeeds, curly equals
U+022E2	⋢	⋢	⋢	⋢	⋢	⋢	⋢	\nsqsubseteq	not, square subset, equals
U+022E3	⋣	⋣	⋣	⋣	⋣	⋣	⋣	\nsqsupseteq	not, square superset, equals
U+022E4	⋤	⋤	⋤	⋤	⋤	⋤	⋤	\sqsubsetneq	square subset, not equals
U+022E5	⋥	⋥	⋥	⋥	⋥	⋥	⋥	\sqsupsetneq	square superset, not equals
U+022E6	⋦	⋦	⋦	⋦	⋦	⋦	⋦	\lnsim[a]	less, not similar
U+022E7	⋧	⋧	⋧	⋧	⋧	⋧	⋧	\gnsim[a]	greater, not similar
U+022E8	⋨	⋨	⋨	⋨	⋨	⋨	⋨	\precnsim[a]	precedes, not similar
U+022E9	⋩	⋩	⋩	⋩	⋩	⋩	⋩	\succnsim[a]	succeeds, not similar
U+022EA	⋪	⋪	⋪	⋪	⋪	⋪	⋪	\nvartriangleleft	not left triangle
U+022EB	⋫	⋫	⋫	⋫	⋫	⋫	⋫	\nvartriangleright	not right triangle
U+022EC	⋬	⋬	⋬	⋬	⋬	⋬	⋬	\ntrianglelefteq[a]	not left triangle, equals
U+022ED	⋭	⋭	⋭	⋭	⋭	⋭	⋭	\ntrianglerighteq[a]	not right triangle, equals
U+022EE	⋮	⋮	⋮	⋮	⋮	⋮	⋮	\vdots[p]	vertical ellipsis
U+022F0	⋰	⋰	⋰	⋰	⋰	⋰	⋰	\adots	three dots, ascending
U+022F1	⋱	⋱	⋱	⋱	⋱	⋱	⋱	\ddots[p]	three dots, descending
U+022F2		⋲						\disin	element of with long horizontal stroke
U+022F3		⋳						\varisins	element of with vertical bar at end of horizontal stroke
U+022F4		⋴						\isins	small element of with vertical bar at end of horizontal stroke
U+022F5		⋵						\isindot	element of with dot above
U+022F6		⋶						\varisinobar	element of with overbar

USV	M	S	E	X	P	L	G	Macro	Description
U+022F7		ē						`\isinobar`	small element of with overbar
U+022F8		⋸						`\isinvb`	element of with underbar
U+022F9		⋹						`\isinE`	element of with two horizontal strokes
U+022FA		⋺						`\nisd`	contains with long horizontal stroke
U+022FB		⋻						`\varnis`	contains with vertical bar at end of horizontal stroke
U+022FC		⋼						`\nis`	small contains with vertical bar at end of horizontal stroke
U+022FD		⋽						`\varniobar`	contains with overbar
U+022FE		⋾						`\niobar`	small contains with overbar
U+022FF		⋿						`\bagmember`	z notation bag membership
U+02322	⌢	⌢	⌢	⌢	⌢	⌢	⌢	`\frown`[p]	down curve
U+02323	⌣	⌣	⌣	⌣	⌣	⌣	⌣	`\smile`[p]	up curve
U+0233F		⌿						`\APLnotslash`	solidus, bar through (apl functional symbol slash bar)
U+025B5		△	△	△				`\vartriangle`[a]	/triangle - up triangle, open
U+027C2	⊥	⊥	⊥	⊥	⊥	⊥	⊥	`\perp`[p]	perpendicular
U+027C8		⟈						`\bsolhsub`	reverse solidus preceding subset
U+027C9		⟉						`\suphsol`	superset preceding solidus
U+027D2		⟒						`\upin`	element of opening upwards
U+027D3		⟓						`\pullback`	lower right corner with dot
U+027D4		⟔						`\pushout`	upper left corner with dot
U+027DA	⟚	⟚	⟚	⟚	⟚		⟚	`\DashVDash`	left and right double turnstile
U+027DB	⟛	⟛	⟛	⟛	⟛		⟛	`\dashVdash`	left and right tack
U+027DC	⟜	⟜	⟜	⟜	⟜		⟜	`\multimapinv`	left multimap
U+027DD	⟝	⟝	⟝	⟝	⟝		⟝	`\vlongdash`	long left tack
U+027DE	⟞	⟞	⟞	⟞	⟞		⟞	`\longdashv`	long right tack
U+027DF		⟟						`\cirbot`	up tack with circle above
U+027F0		⟰						`\UUparrow`	upwards quadruple arrow
U+027F1		⟱						`\DDownarrow`	downwards quadruple arrow
U+027F2		⟲				↺	↺	`\acwgapcirclearrow`	anticlockwise gapped circle arrow
U+027F3		⟳				↻	↻	`\cwgapcirclearrow`	clockwise gapped circle arrow
U+027F4	⟴	⟴	⟴	⟴	⟴			`\rightarrowonoplus`	right arrow with circled plus
U+027F5	⟵	⟵	⟵	⟵	⟵	⟵	⟵	`\longleftarrow`[p]	long leftwards arrow
U+027F6	⟶	⟶	⟶	⟶	⟶	⟶	⟶	`\longrightarrow`[p]	long rightwards arrow

USV	M	S	E	X	P	L	G	Macro	Description
U+027F7	⟷	⟷	⟷	⟷	⟷	⟷	⟷	`\longleftrightarrow`[p]	long left right arrow
U+027F8	⟸	⟸	⟸	⟸	⟸	⟸	⟸	`\Longleftarrow`[p]	long leftwards double arrow
U+027F9	⟹	⟹	⟹	⟹	⟹	⟹	⟹	`\Longrightarrow`[p]	long rightwards double arrow
U+027FA	⟺	⟺	⟺	⟺	⟺	⟺	⟺	`\Longleftrightarrow`[p]	long left right double arrow
U+027FB	⟻	⟻	⟻	⟻	⟻	⟻	⟻	`\longmapsfrom`	long leftwards arrow from bar
U+027FC	⟼	⟼	⟼	⟼	⟼	⟼	⟼	`\longmapsto`[p]	long rightwards arrow from bar
U+027FD	⟽	⟽	⟽	⟽	⟽	⟽	⟽	`\Longmapsfrom`	long leftwards double arrow from bar
U+027FE	⟾	⟾	⟾	⟾	⟾	⟾	⟾	`\Longmapsto`	long rightwards double arrow from bar
U+027FF	⟿	⟿	⟿	⟿	⟿	⟿	⟿	`\longrightsquigarrow`	long rightwards squiggle arrow
U+02900		⤀						`\nvtwoheadrightarrow`	rightwards two-headed arrow with vertical stroke
U+02901		⤁						`\nVtwoheadrightarrow`	rightwards two-headed arrow with double vertical stroke
U+02902		⤂				⤂		`\nvLeftarrow`	leftwards double arrow with vertical stroke
U+02903		⤃				⤃		`\nvRightarrow`	rightwards double arrow with vertical stroke
U+02904		⤄				⤄		`\nvLeftrightarrow`	left right double arrow with vertical stroke
U+02905		⤅						`\twoheadmapsto`	rightwards two-headed arrow from bar
U+02906	⤆	⤆	⤆	⤆	⤆	⤆	⤆	`\Mapsfrom`	leftwards double arrow from bar
U+02907	⤇	⤇	⤇	⤇	⤇	⤇	⤇	`\Mapsto`	rightwards double arrow from bar
U+02908		↧						`\downarrowbarred`	downwards arrow with horizontal stroke
U+02909		↥						`\uparrowbarred`	upwards arrow with horizontal stroke
U+0290A		⤊				⤊		`\Uuparrow`	upwards triple arrow
U+0290B		⤋				⤋		`\Ddownarrow`	downwards triple arrow
U+0290C		⤌						`\leftbkarrow`	leftwards double dash arrow
U+0290D		⤍						`\rightbkarrow`	rightwards double dash arrow
U+0290E		⤎						`\leftdbkarrow`	leftwards triple dash arrow
U+0290F		⤏						`\dbkarrow`	rightwards triple dash arrow
U+02910		⤐						`\drbkarrow`	rightwards two-headed triple dash arrow
U+02911		⤑						`\rightdotarrow`	rightwards arrow with dotted stem
U+02912		⤒						`\baruparrow`	upwards arrow to bar
U+02913		⤓						`\downarrowbar`	downwards arrow to bar

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U+02914		⤔						\nvrightarrowtail	rightwards arrow with tail with vertical stroke
U+02915		⤕						\nVrightarrowtail	rightwards arrow with tail with double vertical stroke
U+02916		⤖						\twoheadrightarrowtail	rightwards two-headed arrow with tail
U+02917		⤗						\nvtwoheadrightarrowtail	rightwards two-headed arrow with tail with vertical stroke
U+02918		⤘						\nVtwoheadrightarrowtail	rightwards two-headed arrow with tail with double vertical stroke
U+02919		⤙						\lefttail	leftwards arrow-tail
U+0291A		⤚						\righttail	rightwards arrow-tail
U+0291B		⤛						\leftdbltail	leftwards double arrow-tail
U+0291C		⤜						\rightdbltail	rightwards double arrow-tail
U+0291D		⤝						\diamondleftarrow	leftwards arrow to black diamond
U+0291E		⤞						\rightarrowdiamond	rightwards arrow to black diamond
U+0291F		⤟						\diamondleftarrowbar	leftwards arrow from bar to black diamond
U+02920		⤠						\barrightarrowdiamond	rightwards arrow from bar to black diamond
U+02921		⤡						\nwsearrow	north west and south east arrow
U+02922		⤢						\neswarrow	north east and south west arrow
U+02923		⤣						\hknwarrow	north west arrow with hook
U+02924		⤤						\hknearrow	north east arrow with hook
U+02925		⤥						\hksearrow	south east arrow with hook
U+02926		⤦						\hkswarrow	south west arrow with hook
U+02927		⤧						\tona	north west arrow and north east arrow
U+02928		⤨						\toea	north east arrow and south east arrow
U+02929		⤩						\tosa	south east arrow and south west arrow
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

USV	M	S	E	X	P	L	G	Macro	Description
U+0293A		↶						\acwoverarcarrow	top arc anticlockwise arrow
U+0293B		↷						\acwunderarcarrow	bottom arc anticlockwise arrow
U+0293C		↷						\curvearrowrightminus	top arc clockwise arrow with minus
U+0293D		↶						\curvearrowleftplus	top arc anticlockwise arrow with plus
U+0293E		↻						\cwundercurvearrow	lower right semicircular clockwise arrow
U+0293F		↺						\ccwundercurvearrow	lower left semicircular anticlockwise arrow
U+02940		↺						\acwcirclearrow	anticlockwise closed circle arrow
U+02941		↻						\cwcirclearrow	clockwise closed circle arrow
U+02942		⇄						\rightarrowshortleftarrow	rightwards arrow above short leftwards arrow
U+02943		⇆						\leftarrowshortrightarrow	leftwards arrow above short rightwards arrow
U+02944		⇄						\shortrightarrowleftarrow	short rightwards arrow above leftwards arrow
U+02945		⇥						\rightarrowplus	rightwards arrow with plus below
U+02946		⇤						\leftarrowplus	leftwards arrow with plus below
U+02947		⇸						\rightarrowx	rightwards arrow through x
U+02948		⇹						\leftrightarrowcircle	left right arrow through small circle
U+02949		⇞						\twoheaduparrowcircle	upwards two-headed arrow from small circle
U+0294A		⇋						\leftrightharpoonupdown	left barb up right barb down harpoon
U+0294B		⇌						\leftrightharpoondownup	left barb down right barb up harpoon
U+0294C		⇅						\updownharpoonrightleft	up barb right down barb left harpoon
U+0294D		⇅						\updownharpoonleftright	up barb left down barb right harpoon
U+0294E		⇋						\leftrightharpoonupup	left barb up right barb up harpoon
U+0294F		⇂						\updownharpoonrightright	up barb right down barb right harpoon
U+02950		⇌						\leftrightharpoondowndown	left barb down right barb down harpoon
U+02951		↿						\updownharpoonleftleft	up barb left down barb left harpoon
U+02952		↼						\barleftharpoonup	leftwards harpoon with barb up to bar

USV	M	S	E	X	P	L	G	Macro	Description
U+02953		⇀						\rightharpoonupbar	rightwards harpoon with barb up to bar
U+02954		↿						\barupharpoonright	upwards harpoon with barb right to bar
U+02955		⇂						\downharpoonrightbar	downwards harpoon with barb right to bar
U+02956		↽						\barleftharpoondown	leftwards harpoon with barb down to bar
U+02957		⇁						\rightharpoondownbar	rightwards harpoon with barb down to bar
U+02958		↾						\barupharpoonleft	upwards harpoon with barb left to bar
U+02959		⇃						\downharpoonleftbar	downwards harpoon with barb left to bar
U+0295A		↼						\leftharpoonupbar	leftwards harpoon with barb up from bar
U+0295B		↦						\barrightharpoonup	rightwards harpoon with barb up from bar
U+0295C		↾						\upharpoonrightbar	upwards harpoon with barb right from bar
U+0295D		⇂						\bardownharpoonright	downwards harpoon with barb right from bar
U+0295E		↼						\leftharpoondownbar	leftwards harpoon with barb down from bar
U+0295F		↦						\barrightharpoondown	rightwards harpoon with barb down from bar
U+02960		↿						\upharpoonleftbar	upwards harpoon with barb left from bar
U+02961		⇃						\bardownharpoonleft	downwards harpoon with barb left from bar
U+02962		⇐						\leftharpoonsupdown	leftwards harpoon with barb up above leftwards harpoon with barb down
U+02963		⇑						\upharpoonsleftright	upwards harpoon with barb left beside upwards harpoon with barb right
U+02964		⇒						\rightharpoonsupdown	rightwards harpoon with barb up above rightwards harpoon with barb down
U+02965		⇓						\downharpoonsleftright	downwards harpoon with barb left beside downwards harpoon with barb right
U+02966		⇆						\leftrightharpoonsup	leftwards harpoon with barb up above rightwards harpoon with barb up
U+02967		⇄						\leftrightharpoonsdown	leftwards harpoon with barb down above rightwards harpoon with barb down
U+02968		⇌						\rightleftharpoonsup	rightwards harpoon with barb up above leftwards harpoon with barb up

USV	M	S	E	X	P	L	G	Macro	Description
U+02969		⇋						\rightleftharpoonsdown	rightwards harpoon with barb down above leftwards harpoon with barb down
U+0296A		⥪						\leftharpoonupdash	leftwards harpoon with barb up above long dash
U+0296B		⥫						\dashleftharpoondown	leftwards harpoon with barb down below long dash
U+0296C		⥬						\rightharpoonupdash	rightwards harpoon with barb up above long dash
U+0296D		⥭						\dashrightharpoondown	rightwards harpoon with barb down below long dash
U+0296E		⥮						\updownharpoonsleftright	upwards harpoon with barb left beside downwards harpoon with barb right
U+0296F		⥯						\downupharpoonsleftright	downwards harpoon with barb left beside upwards harpoon with barb right
U+02970		⥰						\rightimply	right double arrow with rounded head
U+02971		⥱				⥱		\equalrightarrow	equals sign above rightwards arrow
U+02972		⥲				⥲		\similarrightarrow	tilde operator above rightwards arrow
U+02973		⥳				⥳		\leftarrowsimilar	leftwards arrow above tilde operator
U+02974		⥴				⥴		\rightarrowsimilar	rightwards arrow above tilde operator
U+02975		⥵				⥵		\rightarrowapprox	rightwards arrow above almost equal to
U+02976		⥶						\ltlarr	less-than above leftwards arrow
U+02977		⥷						\leftarrowless	leftwards arrow through less-than
U+02978		⥸						\gtrarr	greater-than above rightwards arrow
U+02979		⥹						\subrarr	subset above rightwards arrow
U+0297A		⥺						\leftarrowsubset	leftwards arrow through subset
U+0297B		⥻						\suplarr	superset above leftwards arrow
U+0297C		⥼						\leftfishtail	left fish tail
U+0297D		⥽						\rightfishtail	right fish tail
U+0297E		⥾						\upfishtail	up fish tail
U+0297F		⥿						\downfishtail	down fish tail
U+02982		⦂				⦂		\typecolon	z notation type colon
U+029CE		⧎						\rtriltri	right triangle above left triangle
U+029CF		⧏						\ltrivb	left triangle beside vertical bar
U+029D0		⧐						\vbrtri	vertical bar beside right triangle

USV	M	S	E	X	P	L	G	Macro	Description
U+029D1		⧑						\lfbowtie	left black bowtie
U+029D2		⧒						\rfbowtie	right black bowtie
U+029D3		⧓						\fbowtie	black bowtie
U+029D4		⧔						\lftimes	left black times
U+029D5		⧕						\rftimes	right black times
U+029DF		⧟						\dualmap	double-ended multimap
U+029E1		⧡						\lrtriangleeq	increases as
U+029E3		⧣						\eparsl	equals sign and slanted parallel
U+029E4		⧤						\smeparsl	equals sign and slanted parallel with tilde above
U+029E5		⧥						\eqvparsl	identical to and slanted parallel
U+029E6		⧦						\gleichstark	gleich stark
U+029F4		⧴						\ruledelayed	rule-delayed
U+02A59		⩙						\veeonwedge	logical or overlapping logical and
U+02A66		⩦						\eqdot	equals sign with dot below
U+02A67		⩧						\dotequiv	identical with dot above
U+02A68		⩨						\equivVert	triple horizontal bar with double vertical stroke
U+02A69		⩩						\equivVvert	triple horizontal bar with triple vertical stroke
U+02A6A		⩪					⩪	\dotsim	tilde operator with dot above
U+02A6B		⩫					⩫	\simrdots	tilde operator with rising dots
U+02A6C		⩬					⩬	\simminussim	similar minus similar
U+02A6D		⩭					⩭	\congdot	congruent with dot above
U+02A6E		⩮						\asteq	equals with asterisk
U+02A6F		⩯						\hatapprox	almost equal to with circumflex accent
U+02A70		⩰					⩰	\approxeqq	approximately equal or equal to
U+02A73		⩳					⩳	\eqqsim	equals sign above tilde operator
U+02A74		⩴					⩴	\Coloneq	double colon equal
U+02A75		⩵					⩵	\eqeq	two consecutive equals signs
U+02A76		⩶					⩶	\eqeqeq	three consecutive equals signs
U+02A77		⩷						\ddotseq	equals sign with two dots above and two dots below
U+02A78		⩸						\equivDD	equivalent with four dots above
U+02A79		⩹					⩹	\ltcir	less-than with circle inside
U+02A7A		⩺					⩺	\gtcir	greater-than with circle inside

USV	M	S	E	X	P	L	G	Macro	Description
U+02A7B		⋚						\ltquest	less-than with question mark above
U+02A7C		⋚						\gtquest	greater-than with question mark above
U+02A7D	⩽	⩽	⩽	⩽	⩽	⩽	⩽	\leqslant[a]	less-than or slanted equal to
U+02A7E	⩾	⩾	⩾	⩾	⩾	⩾	⩾	\geqslant[a]	greater-than or slanted equal to
U+02A7F		⩿					⩿	\lesdot	less-than or slanted equal to with dot inside
U+02A80		⪀					⪀	\gesdot	greater-than or slanted equal to with dot inside
U+02A81		⪁						\lesdoto	less-than or slanted equal to with dot above
U+02A82		⪂						\gesdoto	greater-than or slanted equal to with dot above
U+02A83		⪃						\lesdotor	less-than or slanted equal to with dot above right
U+02A84		⪄						\gesdotol	greater-than or slanted equal to with dot above left
U+02A85	⪅	⪅	⪅	⪅	⪅		⪅	\lessapprox[a]	less-than or approximate
U+02A86	⪆	⪆	⪆	⪆	⪆		⪆	\gtrapprox[a]	greater-than or approximate
U+02A87	⪇	⪇	⪇	⪇	⪇	⪇	⪇	\lneq[a]	less-than and single-line not equal to
U+02A88	⪈	⪈	⪈	⪈	⪈	⪈	⪈	\gneq[a]	greater-than and single-line not equal to
U+02A89	⪉	⪉	⪉	⪉	⪉		⪉	\lnapprox[a]	less-than and not approximate
U+02A8A	⪊	⪊	⪊	⪊	⪊		⪊	\gnapprox[a]	greater-than and not approximate
U+02A8B	⪋	⪋	⪋	⪋	⪋			\lesseqqgtr[a]	less-than above double-line equal above greater-than
U+02A8C	⪌	⪌	⪌	⪌	⪌			\gtreqqless[a]	greater-than above double-line equal above less-than
U+02A8D		⪍					⪍	\lsime	less-than above similar or equal
U+02A8E		⪎					⪎	\gsime	greater-than above similar or equal
U+02A8F		⪏					⪏	\lsimg	less-than above similar above greater-than
U+02A90		⪐					⪐	\gsiml	greater-than above similar above less-than
U+02A91		⪑						\lgE	less-than above greater-than above double-line equal
U+02A92		⪒						\glE	greater-than above less-than above double-line equal
U+02A93		⪓						\lesges	less-than above slanted equal above greater-than above slanted equal

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USV	M	S	E	X	P	L	G	Macro	Description
U+02A94		⪔						\gesles	greater-than above slanted equal above less-than above slanted equal
U+02A95	⪕	⪕	⪕	⪕	⪕			\eqslantless[a]	slanted equal to or less-than
U+02A96	⪖	⪖	⪖	⪖	⪖			\eqslantgtr[a]	slanted equal to or greater-than
U+02A97		⪗						\elsdot	slanted equal to or less-than with dot inside
U+02A98		⪘						\egsdot	slanted equal to or greater-than with dot inside
U+02A99		⪙						\eqqless	double-line equal to or less-than
U+02A9A		⪚						\eqqgtr	double-line equal to or greater-than
U+02A9B		⪛	⪛	⪛				\eqqslantless	double-line slanted equal to or less-than
U+02A9C		⪜	⪜	⪜				\eqqslantgtr	double-line slanted equal to or greater-than
U+02A9D		⪝						\simless	similar or less-than
U+02A9E		⪞						\simgtr	similar or greater-than
U+02A9F		⪟						\simlE	similar above less-than above equals sign
U+02AA0		⪠						\simgE	similar above greater-than above equals sign
U+02AA1		⪡						\Lt	double nested less-than
U+02AA2		⪢						\Gt	double nested greater-than
U+02AA3		⪣						\partialmeetcontraction	double less-than with underbar
U+02AA4		⪤						\glj	greater-than overlapping less-than
U+02AA5		⪥						\gla	greater-than beside less-than
U+02AA6		⪦						\ltcc	less-than closed by curve
U+02AA7		⪧						\gtcc	greater-than closed by curve
U+02AA8		⪨						\lescc	less-than closed by curve above slanted equal
U+02AA9		⪩						\gescc	greater-than closed by curve above slanted equal
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		⪮					⪮	\bumpeqq	equals sign with bumpy above
U+02AAF	⪯	⪯	⪯	⪯	⪯	⪯	⪯	\preceq[p]	precedes above single-line equals sign

USV	M	S	E	X	P	L	G	Macro	Description
U+02AB0	⪰	⪰	⪰	⪰	⪰	⪰	⪰	\succeq[p]	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[a]	precedes above not equal to
U+02AB6		⪶	⪶	⪶		⪶	⪶	\succneqq[a]	succeeds above not equal to
U+02AB7		⪷	⪷	⪷			⪷	\precapprox[a]	precedes above almost equal to
U+02AB8		⪸	⪸	⪸			⪸	\succapprox[a]	succeeds above almost equal to
U+02AB9		⪹	⪹	⪹			⪹	\precnapprox[a]	precedes above not almost equal to
U+02ABA		⪺	⪺	⪺			⪺	\succnapprox[a]	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
U+02ABF		⪿						\subsetplus	subset with plus sign below
U+02AC0		⫀						\supsetplus	superset with plus sign below
U+02AC1		⫁						\submult	subset with multiplication sign below
U+02AC2		⫂						\supmult	superset with multiplication sign below
U+02AC3		⫃						\subedot	subset of or equal to with dot above
U+02AC4		⫄						\supedot	superset of or equal to with dot above
U+02AC5		⫅	⫅	⫅			⫅	\subseteqq[a]	subset of above equals sign
U+02AC6		⫆	⫆	⫆			⫆	\supseteqq[a]	superset of above equals sign
U+02AC7		⫇					⫇	\subsim	subset of above tilde operator
U+02AC8		⫈					⫈	\supsim	superset of above tilde operator
U+02AC9		⫉					⫉	\subsetapprox	subset of above almost equal to
U+02ACA		⫊					⫊	\supsetapprox	superset of above almost equal to
U+02ACB		⫋	⫋	⫋			⫋	\subsetneqq[a]	subset of above not equal to
U+02ACC		⫌	⫌	⫌			⫌	\supsetneqq[a]	superset of above not equal to
U+02ACD		⫍						\lsqhook	square left open box operator

USV	M	S	E	X	P	L	G	Macro	Description
U+02ACE		⊐						\rsqhook	square right open box operator
U+02ACF		⊏						\csub	closed subset
U+02AD0		⊐						\csup	closed superset
U+02AD1		⊑						\csube	closed subset or equal to
U+02AD2		⊒						\csupe	closed superset or equal to
U+02AD3		⊓						\subsup	subset above superset
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
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

USV	M	S	E	X	P	L	G	Macro	Description
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		⬰				⬰		`\circleonleftarrow`	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
U+02B38		⬸						`\leftdotarrow`	leftwards arrow with dotted stem
U+02B39		⬹						`\nvleftarrowtail`	leftwards arrow with tail with vertical stroke
U+02B3A		⬺						`\nVleftarrowtail`	leftwards arrow with tail with double vertical stroke
U+02B3B		⬻						`\twoheadleftarrowtail`	leftwards two-headed arrow with tail
U+02B3C		⬼						`\nvtwoheadleftarrowtail`	leftwards two-headed arrow with tail with vertical stroke
U+02B3D		⬽						`\nVtwoheadleftarrowtail`	leftwards two-headed arrow with tail with double vertical stroke
U+02B3E		⬾						`\leftarrowx`	leftwards arrow through x
U+02B3F		⬿	⬿	⬿				`\leftcurvedarrow`	wave arrow pointing directly left
U+02B40		⭀						`\equalleftarrow`	equals sign above leftwards arrow
U+02B41		⭁						`\bsimilarleftarrow`	reverse tilde operator above leftwards arrow
U+02B42		⭂						`\leftarrowbackapprox`	leftwards arrow above reverse almost equal to
U+02B43		⭃						`\rightarrowgtr`	rightwards arrow through greater-than

USV	M	S	E	X	P	L	G	Macro	Description
U+02B44		⇻						\rightarrowsupset	rightwards arrow through subset
U+02B45		⇚					⇚	\LLeftarrow	leftwards quadruple arrow
U+02B46		⇛					⇛	\RRightarrow	rightwards quadruple arrow
U+02B47		⇾						\bsimilarrightarrow	reverse tilde operator above rightwards arrow
U+02B48		⇽						\rightarrowbackapprox	rightwards arrow above reverse almost equal to
U+02B49		⇷						\similarleftarrow	tilde operator above leftwards arrow
U+02B4A		⇷						\leftarrowapprox	leftwards arrow above almost equal to
U+02B4B		⇷						\leftarrowbsimilar	leftwards arrow above reverse tilde operator
U+02B4C		⇾						\rightarrowbsimilar	righttwards arrow above reverse tilde operator

15 Alphabetical symbols, \mathalpha

15.1 Normal weight

15.1.1 Upright Greek, uppercase

USV	M	S	E	X	P	L	G	Macro	Description
U+00391	A	A	A	A	A	A	A	\mupAlpha	capital alpha, greek
U+00392	B	B	B	B	B	B	B	\mupBeta	capital beta, greek
U+00393	Γ	Γ	Γ	Γ	Γ	Γ	Γ	\mupGamma	capital gamma, greek
U+00394	Δ	Δ	Δ	Δ	Δ	Δ	Δ	\mupDelta	capital delta, greek
U+00395	E	E	E	E	E	E	E	\mupEpsilon	capital epsilon, greek
U+00396	Z	Z	Z	Z	Z	Z	Z	\mupZeta	capital zeta, greek
U+00397	H	H	H	H	H	H	H	\mupEta	capital eta, greek
U+00398	Θ	Θ	Θ	Θ	Θ	Θ	Θ	\mupTheta	capital theta, greek
U+00399	I	I	I	I	I	I	I	\mupIota	capital iota, greek
U+0039A	K	K	K	K	K	K	K	\mupKappa	capital kappa, greek
U+0039B	Λ	Λ	Λ	Λ	Λ	Λ	Λ	\mupLambda	capital lambda, greek
U+0039C	M	M	M	M	M	M	M	\mupMu	capital mu, greek
U+0039D	N	N	N	N	N	N	N	\mupNu	capital nu, greek
U+0039E	Ξ	Ξ	Ξ	Ξ	Ξ	Ξ	Ξ	\mupXi	capital xi, greek
U+0039F	O	O	O	O	O	O	O	\mupOmicron	capital omicron, greek

USV	M	S	E	X	P	L	G	Macro	Description
U+003A0	Π	Π	Π	Π	Π	Π	Π	\mupPi	capital pi, greek
U+003A1	P	P	P	P	P	P	P	\mupRho	capital rho, greek
U+003A3	Σ	Σ	Σ	Σ	Σ	Σ	Σ	\mupSigma	capital sigma, greek
U+003A4	T	T	T	T	T	T	T	\mupTau	capital tau, greek
U+003A5	Υ	Υ	Υ	Υ	Y	Y	Υ	\mupUpsilon	capital upsilon, greek
U+003A6	Φ	Φ	Φ	Φ	Φ	Φ	Φ	\mupPhi	capital phi, greek
U+003A7	X	X	X	X	X	X	X	\mupChi	capital chi, greek
U+003A8	Ψ	Ψ	Ψ	Ψ	Ψ	Ψ	Ψ	\mupPsi	capital psi, greek
U+003A9	Ω	Ω	Ω	Ω	Ω	Ω	Ω	\mupOmega	capital omega, greek

15.1.2 Upright Greek, lowercase

USV	M	S	E	X	P	L	G	Macro	Description
U+003B1	α	α	α	α	α	α	α	\mupalpha	small alpha, greek
U+003B2	β	β	β	β	β	β	β	\mupbeta	small beta, greek
U+003B3	γ	γ	γ	γ	γ	γ	γ	\mupgamma	small gamma, greek
U+003B4	δ	δ	δ	δ	δ	δ	δ	\mupdelta	small delta, greek
U+003B5	ε	ε	ε	ε	ε	ε	ε	\mupvarepsilon	rounded small varepsilon, greek
U+003B6	ζ	ζ	ζ	ζ	ζ	ζ	ζ	\mupzeta	small zeta, greek
U+003B7	η	η	η	η	η	η	η	\mupeta	small eta, greek
U+003B8	θ	θ	θ	θ	θ	θ	θ	\muptheta	straight theta, small theta, greek
U+003B9	ι	ι	ι	ι	ι	ι	ι	\mupiota	small iota, greek
U+003BA	κ	κ	κ	κ	κ	κ	κ	\mupkappa	small kappa, greek
U+003BB	λ	λ	λ	λ	λ	λ	λ	\muplambda	small lambda, greek
U+003BC	μ	μ	μ	μ	μ	μ	μ	\mupmu	small mu, greek
U+003BD	ν	ν	ν	ν	ν	ν	ν	\mupnu	small nu, greek
U+003BE	ξ	ξ	ξ	ξ	ξ	ξ	ξ	\mupxi	small xi, greek
U+003BF	o	o	o	o	o	o	o	\mupomicron	small omicron, greek
U+003C0	π	π	π	π	π	π	π	\muppi	small pi, greek
U+003C1	ρ	ρ	ρ	ρ	ρ	ρ	ρ	\muprho	small rho, greek
U+003C2	ς	ς	ς	ς	ς	ς	ς	\mupvarsigma	terminal sigma, greek
U+003C3	σ	σ	σ	σ	σ	σ	σ	\mupsigma	small sigma, greek
U+003C4	τ	τ	τ	τ	τ	τ	τ	\muptau	small tau, greek

USV	M	S	E	X	P	L	G	Macro	Description
U+003C5	υ	υ	υ	υ	υ	υ	υ	\mupupsilon	small upsilon, greek
U+003C6	φ	φ	φ	φ	φ	φ	φ	\mupvarphi	curly or open small phi, greek
U+003C7	χ	χ	χ	χ	χ	χ	χ	\mupchi	small chi, greek
U+003C8	ψ	ψ	ψ	ψ	ψ	ψ	ψ	\muppsi	small psi, greek
U+003C9	ω	ω	ω	ω	ω	ω	ω	\mupomega	small omega, greek
U+003D1	ϑ	ϑ	ϑ	ϑ	ϑ	ϑ	ϑ	\mupvartheta	/vartheta - curly or open theta
U+003D5	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	\mupphi	/straightphi - small phi, greek
U+003D6	ϖ	ϖ	ϖ	ϖ	ϖ	ϖ	ϖ	\mupvarpi	rounded small pi (pomega), greek
U+003DC		F				F		\upDigamma	capital digamma
U+003DD		ϝ	ϝ	ϝ		ϝ		\updigamma	old greek small letter digamma
U+003F0	ϰ	ϰ	κ	ϰ	ϰ	ϰ	ϰ	\mupvarkappa	rounded small kappa, greek
U+003F1	ϱ	ϱ	ϱ	ϱ	ϱ	ϱ	ϱ	\mupvarrho	rounded small rho, greek
U+003F4	Θ	Θ	Θ	Θ	Θ	Θ	Θ	\mupvarTheta	greek capital theta symbol
U+003F5	ϵ	ϵ	ϵ	ϵ	ϵ	ϵ	ϵ	\mupepsilon	greek lunate varepsilon symbol

15.1.3   Italic, Latin, uppercase

USV	M	S	E	X	P	L	G	Macro	Description
U+1D434	*A*	*A*	*A*	*A*	*A*	*A*	*A*	\mitA	mathematical italic capital a
U+1D435	*B*	*B*	*B*	*B*	*B*	*B*	*B*	\mitB	mathematical italic capital b
U+1D436	*C*	*C*	*C*	*C*	*C*	*C*	*C*	\mitC	mathematical italic capital c
U+1D437	*D*	*D*	*D*	*D*	*D*	*D*	*D*	\mitD	mathematical italic capital d
U+1D438	*E*	*E*	*E*	*E*	*E*	*E*	*E*	\mitE	mathematical italic capital e
U+1D439	*F*	*F*	*F*	*F*	*F*	*F*	*F*	\mitF	mathematical italic capital f
U+1D43A	*G*	*G*	*G*	*G*	*G*	*G*	*G*	\mitG	mathematical italic capital g
U+1D43B	*H*	*H*	*H*	*H*	*H*	*H*	*H*	\mitH	mathematical italic capital h
U+1D43C	*I*	*I*	*I*	*I*	*I*	*I*	*I*	\mitI	mathematical italic capital i
U+1D43D	*J*	*J*	*J*	*J*	*J*	*J*	*J*	\mitJ	mathematical italic capital j
U+1D43E	*K*	*K*	*K*	*K*	*K*	*K*	*K*	\mitK	mathematical italic capital k
U+1D43F	*L*	*L*	*L*	*L*	*L*	*L*	*L*	\mitL	mathematical italic capital l
U+1D440	*M*	*M*	*M*	*M*	*M*	*M*	*M*	\mitM	mathematical italic capital m
U+1D441	*N*	*N*	*N*	*N*	*N*	*N*	*N*	\mitN	mathematical italic capital n
U+1D442	*O*	*O*	*O*	*O*	*O*	*O*	*O*	\mitO	mathematical italic capital o

USV	M	S	E	X	P	L	G	Macro	Description
U+1D443	*P*	*P*	*P*	*P*	*P*	*P*	*P*	\mitP	mathematical italic capital p
U+1D444	*Q*	*Q*	*Q*	*Q*	*Q*	*Q*	*Q*	\mitQ	mathematical italic capital q
U+1D445	*R*	*R*	*R*	*R*	*R*	*R*	*R*	\mitR	mathematical italic capital r
U+1D446	*S*	*S*	*S*	*S*	*S*	*S*	*S*	\mitS	mathematical italic capital s
U+1D447	*T*	*T*	*T*	*T*	*T*	*T*	*T*	\mitT	mathematical italic capital t
U+1D448	*U*	*U*	*U*	*U*	*U*	*U*	*U*	\mitU	mathematical italic capital u
U+1D449	*V*	*V*	*V*	*V*	*V*	*V*	*V*	\mitV	mathematical italic capital v
U+1D44A	*W*	*W*	*W*	*W*	*W*	*W*	*W*	\mitW	mathematical italic capital w
U+1D44B	*X*	*X*	*X*	*X*	*X*	*X*	*X*	\mitX	mathematical italic capital x
U+1D44C	*Y*	*Y*	*Y*	*Y*	*Y*	*Y*	*Y*	\mitY	mathematical italic capital y
U+1D44D	*Z*	*Z*	*Z*	*Z*	*Z*	*Z*	*Z*	\mitZ	mathematical italic capital z

15.1.4 Italic, Latin, lowercase

USV	M	S	E	X	P	L	G	Macro	Description
U+1D44E	*a*	*a*	*a*	*a*	*a*	*a*	*a*	\mita	mathematical italic small a
U+1D44F	*b*	*b*	*b*	*b*	*b*	*b*	*b*	\mitb	mathematical italic small b
U+1D450	*c*	*c*	*c*	*c*	*c*	*c*	*c*	\mitc	mathematical italic small c
U+1D451	*d*	*d*	*d*	*d*	*d*	*d*	*d*	\mitd	mathematical italic small d
U+1D452	*e*	*e*	*e*	*e*	*e*	*e*	*e*	\mite	mathematical italic small e
U+1D453	*f*	*f*	*f*	*f*	*f*	*f*	*f*	\mitf	mathematical italic small f
U+1D454	*g*	*g*	*g*	*g*	*g*	*g*	*g*	\mitg	mathematical italic small g
U+1D456	*i*	*i*	*i*	*i*	*i*	*i*	*i*	\miti	mathematical italic small i
U+1D457	*j*	*j*	*j*	*j*	*j*	*j*	*j*	\mitj	mathematical italic small j
U+1D458	*k*	*k*	*k*	*k*	*k*	*k*	*k*	\mitk	mathematical italic small k
U+1D459	*l*	*l*	*l*	*l*	*l*	*l*	*l*	\mitl	mathematical italic small l
U+1D45A	*m*	*m*	*m*	*m*	*m*	*m*	*m*	\mitm	mathematical italic small m
U+1D45B	*n*	*n*	*n*	*n*	*n*	*n*	*n*	\mitn	mathematical italic small n
U+1D45C	*o*	*o*	*o*	*o*	*o*	*o*	*o*	\mito	mathematical italic small o
U+1D45D	*p*	*p*	*p*	*p*	*p*	*p*	*p*	\mitp	mathematical italic small p
U+1D45E	*q*	*q*	*q*	*q*	*q*	*q*	*q*	\mitq	mathematical italic small q
U+1D45F	*r*	*r*	*r*	*r*	*r*	*r*	*r*	\mitr	mathematical italic small r
U+1D460	*s*	*s*	*s*	*s*	*s*	*s*	*s*	\mits	mathematical italic small s
U+1D461	*t*	*t*	*t*	*t*	*t*	*t*	*t*	\mitt	mathematical italic small t

USV	M	S	E	X	P	L	G	Macro	Description
U+1D462	*u*	*u*	*u*	*u*	*u*	*u*	*u*	\mitu	mathematical italic small u
U+1D463	*v*	*v*	*v*	*v*	*v*	*v*	*v*	\mitv	mathematical italic small v
U+1D464	*w*	*w*	*w*	*w*	*w*	*w*	*w*	\mitw	mathematical italic small w
U+1D465	*x*	*x*	*x*	*x*	*x*	*x*	*x*	\mitx	mathematical italic small x
U+1D466	*y*	*y*	*y*	*y*	*y*	*y*	*y*	\mity	mathematical italic small y
U+1D467	*z*	*z*	*z*	*z*	*z*	*z*	*z*	\mitz	mathematical italic small z

15.1.5 Italic Greek, uppercase

USV	M	S	E	X	P	L	G	Macro	Description
U+1D6E2	*A*	*A*	*A*	*A*	*A*	*A*	*A*	\mitAlpha	mathematical italic capital alpha
U+1D6E3	*B*	*B*	*B*	*B*	*B*	*B*	*B*	\mitBeta	mathematical italic capital beta
U+1D6E4	*Γ*	*Γ*	*Γ*	*Γ*	*Γ*	*Γ*	*Γ*	\mitGamma	mathematical italic capital gamma
U+1D6E5	*Δ*	*Δ*	*Δ*	*Δ*	*Δ*	*Δ*	*Δ*	\mitDelta	mathematical italic capital delta
U+1D6E6	*E*	*E*	*E*	*E*	*E*	*E*	*E*	\mitEpsilon	mathematical italic capital epsilon
U+1D6E7	*Z*	*Z*	*Z*	*Z*	*Z*	*Z*	*Z*	\mitZeta	mathematical italic capital zeta
U+1D6E8	*H*	*H*	*H*	*H*	*H*	*H*	*H*	\mitEta	mathematical italic capital eta
U+1D6E9	*Θ*	*Θ*	*Θ*	*Θ*	*Θ*	*Θ*	*Θ*	\mitTheta	mathematical italic capital theta
U+1D6EA	*I*	*I*	*I*	*I*	*I*	*I*	*I*	\mitIota	mathematical italic capital iota
U+1D6EB	*K*	*K*	*K*	*K*	*K*	*K*	*K*	\mitKappa	mathematical italic capital kappa
U+1D6EC	*Λ*	*Λ*	*Λ*	*Λ*	*Λ*	*Λ*	*Λ*	\mitLambda	mathematical italic capital lambda
U+1D6ED	*M*	*M*	*M*	*M*	*M*	*M*	*M*	\mitMu	mathematical italic capital mu
U+1D6EE	*N*	*N*	*N*	*N*	*N*	*N*	*N*	\mitNu	mathematical italic capital nu
U+1D6EF	*Ξ*	*Ξ*	*Ξ*	*Ξ*	*Ξ*	*Ξ*	*Ξ*	\mitXi	mathematical italic capital xi
U+1D6F0	*O*	*O*	*O*	*O*	*O*	*O*	*O*	\mitOmicron	mathematical italic capital omicron
U+1D6F1	*Π*	*Π*	*Π*	*Π*	*Π*	*Π*	*Π*	\mitPi	mathematical italic capital pi
U+1D6F2	*P*	*P*	*P*	*P*	*P*	*P*	*P*	\mitRho	mathematical italic capital rho
U+1D6F3	*Θ*	*Θ*	*Θ*	*Θ*	*Θ*	*Θ*	*Θ*	\mitvarTheta	mathematical italic capital theta symbol
U+1D6F4	*Σ*	*Σ*	*Σ*	*Σ*	*Σ*	*Σ*	*Σ*	\mitSigma	mathematical italic capital sigma
U+1D6F5	*T*	*T*	*T*	*T*	*T*	*T*	*T*	\mitTau	mathematical italic capital tau

USV	M	S	E	X	P	L	G	Macro	Description
U+1D6F6	ϒ	ϒ	ϒ	ϒ	ϒ	ϒ	ϒ	\mitUpsilon	mathematical italic capital upsilon
U+1D6F7	Φ	Φ	Φ	Φ	Φ	Φ	Φ	\mitPhi	mathematical italic capital phi
U+1D6F8	X	X	X	X	X	X	X	\mitChi	mathematical italic capital chi
U+1D6F9	Ψ	Ψ	Ψ	Ψ	Ψ	Ψ	Ψ	\mitPsi	mathematical italic capital psi
U+1D6FA	Ω	Ω	Ω	Ω	Ω	Ω	Ω	\mitOmega	mathematical italic capital omega

15.1.6 Italic Greek, lowercase

USV	M	S	E	X	P	L	G	Macro	Description
U+1D6FC	α	α	α	α	α	α	α	\mitalpha	mathematical italic small alpha
U+1D6FD	β	β	β	β	β	β	β	\mitbeta	mathematical italic small beta
U+1D6FE	γ	γ	γ	γ	γ	γ	γ	\mitgamma	mathematical italic small gamma
U+1D6FF	δ	δ	δ	δ	δ	δ	δ	\mitdelta	mathematical italic small delta
U+1D700	ε	ε	ε	ε	ε	ε	ε	\mitvarepsilon	mathematical italic small varepsilon
U+1D701	ζ	ζ	ζ	ζ	ζ	ζ	ζ	\mitzeta	mathematical italic small zeta
U+1D702	η	η	η	η	η	η	η	\miteta	mathematical italic small eta
U+1D703	θ	θ	θ	θ	θ	θ	θ	\mittheta	mathematical italic small theta
U+1D704	ι	ι	ι	ι	ι	ι	ι	\mitiota	mathematical italic small iota
U+1D705	κ	κ	κ	κ	κ	κ	κ	\mitkappa	mathematical italic small kappa
U+1D706	λ	λ	λ	λ	λ	λ	λ	\mitlambda	mathematical italic small lambda
U+1D707	μ	μ	μ	μ	μ	μ	μ	\mitmu	mathematical italic small mu
U+1D708	ν	ν	ν	ν	ν	ν	ν	\mitnu	mathematical italic small nu
U+1D709	ξ	ξ	ξ	ξ	ξ	ξ	ξ	\mitxi	mathematical italic small xi
U+1D70A	ο	ο	ο	ο	ο	ο	ο	\mitomicron	mathematical italic small omicron
U+1D70B	π	π	π	π	π	π	π	\mitpi	mathematical italic small pi
U+1D70C	ρ	ρ	ρ	ρ	ρ	ρ	ρ	\mitrho	mathematical italic small rho
U+1D70D	ς	ς	ς	ς	ς	ς	ς	\mitvarsigma	mathematical italic small final sigma
U+1D70E	σ	σ	σ	σ	σ	σ	σ	\mitsigma	mathematical italic small sigma
U+1D70F	τ	τ	τ	τ	τ	τ	τ	\mittau	mathematical italic small tau
U+1D710	υ	υ	υ	υ	υ	υ	υ	\mitupsilon	mathematical italic small upsilon
U+1D711	φ	φ	φ	φ	φ	φ	φ	\mitvarphi	mathematical italic small phi

USV	M	S	E	X	P	L	G	Macro	Description
U+1D712	χ	χ	χ	χ	χ	χ	χ	\mitchi	mathematical italic small chi
U+1D713	ψ	ψ	ψ	ψ	ψ	ψ	ψ	\mitpsi	mathematical italic small psi
U+1D714	ω	ω	ω	ω	ω	ω	ω	\mitomega	mathematical italic small omega
U+1D715	∂	∂	∂	∂	∂	∂	∂	\mitpartial	mathematical italic partial differential
U+1D716	ϵ	ϵ	ϵ	ϵ	ϵ	ϵ	ϵ	\mitepsilon	mathematical italic varepsilon symbol
U+1D717	ϑ	ϑ	ϑ	ϑ	ϑ	ϑ	ϑ	\mitvartheta	mathematical italic theta symbol
U+1D718	$\varkappa$	$\varkappa$	κ	$\varkappa$	$\varkappa$	$\varkappa$	$\varkappa$	\mitvarkappa	mathematical italic kappa symbol
U+1D719	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	\mitphi	mathematical italic phi symbol
U+1D71A	ϱ	ϱ	ϱ	ϱ	ϱ	ϱ	ϱ	\mitvarrho	mathematical italic rho symbol
U+1D71B	ϖ	ϖ	ϖ	ϖ	ϖ	ϖ	ϖ	\mitvarpi	mathematical italic pi symbol

15.1.7 Script, Latin, uppercase

USV	M	S	E	X	P	L	G	Macro	Description
U+1D49C	$\mathcal{A}$	$\mathcal{A}$	$\mathcal{A}$	$\mathcal{A}$	$\mathcal{A}$	$\mathcal{A}$	$\mathcal{A}$	\mscrA	mathematical script capital a
U+1D49E	$\mathcal{C}$	$\mathcal{C}$	$\mathcal{C}$	$\mathcal{C}$	$\mathcal{C}$	$\mathcal{C}$	$\mathcal{C}$	\mscrC	mathematical script capital c
U+1D49F	$\mathcal{D}$	$\mathcal{D}$	$\mathcal{D}$	$\mathcal{D}$	$\mathcal{D}$	$\mathcal{D}$	$\mathcal{D}$	\mscrD	mathematical script capital d
U+1D4A2	$\mathcal{G}$	$\mathcal{G}$	$\mathcal{G}$	$\mathcal{G}$	$\mathcal{G}$	$\mathcal{G}$	$\mathcal{G}$	\mscrG	mathematical script capital g
U+1D4A5	$\mathcal{J}$	$\mathcal{J}$	$\mathcal{J}$	$\mathcal{J}$	$\mathcal{J}$	$\mathcal{J}$	$\mathcal{J}$	\mscrJ	mathematical script capital j
U+1D4A6	$\mathcal{K}$	$\mathcal{K}$	$\mathcal{K}$	$\mathcal{K}$	$\mathcal{K}$	$\mathcal{K}$	$\mathcal{K}$	\mscrK	mathematical script capital k
U+1D4A9	$\mathcal{N}$	$\mathcal{N}$	$\mathcal{N}$	$\mathcal{N}$	$\mathcal{N}$	$\mathcal{N}$	$\mathcal{N}$	\mscrN	mathematical script capital n
U+1D4AA	$\mathcal{O}$	$\mathcal{O}$	$\mathcal{O}$	$\mathcal{O}$	$\mathcal{O}$	$\mathcal{O}$	$\mathcal{O}$	\mscrO	mathematical script capital o
U+1D4AB	$\mathcal{P}$	$\mathcal{P}$	$\mathcal{P}$	$\mathcal{P}$	$\mathcal{P}$	$\mathcal{P}$	$\mathcal{P}$	\mscrP	mathematical script capital p
U+1D4AC	$\mathcal{Q}$	$\mathcal{Q}$	$\mathcal{Q}$	$\mathcal{Q}$	$\mathcal{Q}$	$\mathcal{Q}$	$\mathcal{Q}$	\mscrQ	mathematical script capital q
U+1D4AE	$\mathcal{S}$	$\mathcal{S}$	$\mathcal{S}$	$\mathcal{S}$	$\mathcal{S}$	$\mathcal{S}$	$\mathcal{S}$	\mscrS	mathematical script capital s
U+1D4AF	$\mathcal{T}$	$\mathcal{T}$	$\mathcal{T}$	$\mathcal{T}$	$\mathcal{T}$	$\mathcal{T}$	$\mathcal{T}$	\mscrT	mathematical script capital t
U+1D4B0	$\mathcal{U}$	$\mathcal{U}$	$\mathcal{U}$	$\mathcal{U}$	$\mathcal{U}$	$\mathcal{U}$	$\mathcal{U}$	\mscrU	mathematical script capital u
U+1D4B1	$\mathcal{V}$	$\mathcal{V}$	$\mathcal{V}$	$\mathcal{V}$	$\mathcal{V}$	$\mathcal{V}$	$\mathcal{V}$	\mscrV	mathematical script capital v
U+1D4B2	$\mathcal{W}$	$\mathcal{W}$	$\mathcal{W}$	$\mathcal{W}$	$\mathcal{W}$	$\mathcal{W}$	$\mathcal{W}$	\mscrW	mathematical script capital w
U+1D4B3	$\mathcal{X}$	$\mathcal{X}$	$\mathcal{X}$	$\mathcal{X}$	$\mathcal{X}$	$\mathcal{X}$	$\mathcal{X}$	\mscrX	mathematical script capital x
U+1D4B4	$\mathcal{Y}$	$\mathcal{Y}$	$\mathcal{Y}$	$\mathcal{Y}$	$\mathcal{Y}$	$\mathcal{Y}$	$\mathcal{Y}$	\mscrY	mathematical script capital y
U+1D4B5	$\mathcal{Z}$	$\mathcal{Z}$	$\mathcal{Z}$	$\mathcal{Z}$	$\mathcal{Z}$	$\mathcal{Z}$	$\mathcal{Z}$	\mscrZ	mathematical script capital z

15.1.8 Script, Latin, lowercase

USV	M	S	E	X	P	L	G	Macro	Description
U+1D4B6		a			a	a	a	\mscra	mathematical script small a
U+1D4B7		b			b	b	b	\mscrb	mathematical script small b
U+1D4B8		c			c	c	c	\mscrc	mathematical script small c
U+1D4B9		d			d	d	d	\mscrd	mathematical script small d
U+1D4BB		f			f	f	f	\mscrf	mathematical script small f
U+1D4BD		h			h	h	h	\mscrh	mathematical script small h
U+1D4BE		i			i	i	i	\mscri	mathematical script small i
U+1D4BF		j			j	j	j	\mscrj	mathematical script small j
U+1D4C0		k			k	k	k	\mscrk	mathematical script small k
U+1D4C1		ℓ			ℓ	ℓ	ℓ	\mscrl	mathematical script small l
U+1D4C2		m			m	m	m	\mscrm	mathematical script small m
U+1D4C3		n			n	n	n	\mscrn	mathematical script small n
U+1D4C5		p			p	p	p	\mscrp	mathematical script small p
U+1D4C6		q			q	q	q	\mscrq	mathematical script small q
U+1D4C7		r			r	r	r	\mscrr	mathematical script small r
U+1D4C8		s			s	s	s	\mscrs	mathematical script small s
U+1D4C9		t			t	t	t	\mscrt	mathematical script small t
U+1D4CA		u			u	u	u	\mscru	mathematical script small u
U+1D4CB		v			v	v	v	\mscrv	mathematical script small v
U+1D4CC		w			w	w	w	\mscrw	mathematical script small w
U+1D4CD		x			x	x	x	\mscrx	mathematical script small x
U+1D4CE		y			y	y	y	\mscry	mathematical script small y
U+1D4CF		z			z	z	z	\mscrz	mathematical script small z

15.1.9 Fraktur, Latin, uppercase

USV	M	S	E	X	P	L	G	Macro	Description
U+1D504	$\mathfrak{A}$	$\mathfrak{A}$	$\mathfrak{A}$	$\mathfrak{A}$	$\mathfrak{A}$	$\mathfrak{A}$	$\mathfrak{A}$	\mfrakA	mathematical fraktur capital a
U+1D505	$\mathfrak{B}$	$\mathfrak{B}$	$\mathfrak{B}$	$\mathfrak{B}$	$\mathfrak{B}$	$\mathfrak{B}$	$\mathfrak{B}$	\mfrakB	mathematical fraktur capital b

USV	M	S	E	X	P	L	G	Macro	Description
U+1D507	𝔇	𝔇	𝔇	𝔇	𝔇	𝔇	𝔇	\mfrakD	mathematical fraktur capital d
U+1D508	𝔈	𝔈	𝔈	𝔈	𝔈	𝔈	𝔈	\mfrakE	mathematical fraktur capital e
U+1D509	𝔉	𝔉	𝔉	𝔉	𝔉	𝔉	𝔉	\mfrakF	mathematical fraktur capital f
U+1D50A	𝔊	𝔊	𝔊	𝔊	𝔊	𝔊	𝔊	\mfrakG	mathematical fraktur capital g
U+1D50D	𝔍	𝔍	𝔍	𝔍	𝔍	𝔍	𝔍	\mfrakJ	mathematical fraktur capital j
U+1D50E	𝔎	𝔎	𝔎	𝔎	𝔎	𝔎	𝔎	\mfrakK	mathematical fraktur capital k
U+1D50F	𝔏	𝔏	𝔏	𝔏	𝔏	𝔏	𝔏	\mfrakL	mathematical fraktur capital l
U+1D510	𝔐	𝔐	𝔐	𝔐	𝔐	𝔐	𝔐	\mfrakM	mathematical fraktur capital m
U+1D511	𝔑	𝔑	𝔑	𝔑	𝔑	𝔑	𝔑	\mfrakN	mathematical fraktur capital n
U+1D512	𝔒	𝔒	𝔒	𝔒	𝔒	𝔒	𝔒	\mfrakO	mathematical fraktur capital o
U+1D513	𝔓	𝔓	𝔓	𝔓	𝔓	𝔓	𝔓	\mfrakP	mathematical fraktur capital p
U+1D514	𝔔	𝔔	𝔔	𝔔	𝔔	𝔔	𝔔	\mfrakQ	mathematical fraktur capital q
U+1D516	𝔖	𝔖	𝔖	𝔖	𝔖	𝔖	𝔖	\mfrakS	mathematical fraktur capital s
U+1D517	𝔗	𝔗	𝔗	𝔗	𝔗	𝔗	𝔗	\mfrakT	mathematical fraktur capital t
U+1D518	𝔘	𝔘	𝔘	𝔘	𝔘	𝔘	𝔘	\mfrakU	mathematical fraktur capital u
U+1D519	𝔙	𝔙	𝔙	𝔙	𝔙	𝔙	𝔙	\mfrakV	mathematical fraktur capital v
U+1D51A	𝔚	𝔚	𝔚	𝔚	𝔚	𝔚	𝔚	\mfrakW	mathematical fraktur capital w
U+1D51B	𝔛	𝔛	𝔛	𝔛	𝔛	𝔛	𝔛	\mfrakX	mathematical fraktur capital x
U+1D51C	𝔜	𝔜	𝔜	𝔜	𝔜	𝔜	𝔜	\mfrakY	mathematical fraktur capital y

15.1.10 Fraktur, Latin, lowercase

USV	M	S	E	X	P	L	G	Macro	Description
U+1D51E	𝔞	𝔞	𝔞	𝔞	𝔞	𝔞	𝔞	\mfraka	mathematical fraktur small a
U+1D51F	𝔟	𝔟	𝔟	𝔟	𝔟	𝔟	𝔟	\mfrakb	mathematical fraktur small b
U+1D520	𝔠	𝔠	𝔠	𝔠	𝔠	𝔠	𝔠	\mfrakc	mathematical fraktur small c
U+1D521	𝔡	𝔡	𝔡	𝔡	𝔡	𝔡	𝔡	\mfrakd	mathematical fraktur small d
U+1D522	𝔢	𝔢	𝔢	𝔢	𝔢	𝔢	𝔢	\mfrake	mathematical fraktur small e
U+1D523	𝔣	𝔣	𝔣	𝔣	𝔣	𝔣	𝔣	\mfrakf	mathematical fraktur small f
U+1D524	𝔤	𝔤	𝔤	𝔤	𝔤	𝔤	𝔤	\mfrakg	mathematical fraktur small g
U+1D525	𝔥	𝔥	𝔥	𝔥	𝔥	𝔥	𝔥	\mfrakh	mathematical fraktur small h
U+1D526	𝔦	𝔦	𝔦	𝔦	𝔦	𝔦	𝔦	\mfraki	mathematical fraktur small i
U+1D527	𝔧	𝔧	𝔧	𝔧	𝔧	𝔧	𝔧	\mfrakj	mathematical fraktur small j
U+1D528	𝔨	𝔨	𝔨	𝔨	𝔨	𝔨	𝔨	\mfrakk	mathematical fraktur small k

USV	M	S	E	X	P	L	G	Macro	Description
U+1D529	l	l	l	l	l	l	l	\mfrakl	mathematical fraktur small l
U+1D52A	m	m	m	m	m	m	m	\mfrakm	mathematical fraktur small m
U+1D52B	n	n	n	n	n	n	n	\mfrakn	mathematical fraktur small n
U+1D52C	o	o	o	o	o	o	o	\mfrako	mathematical fraktur small o
U+1D52D	p	p	p	p	p	p	p	\mfrakp	mathematical fraktur small p
U+1D52E	q	q	q	q	q	q	q	\mfrakq	mathematical fraktur small q
U+1D52F	r	r	r	r	r	r	r	\mfrakr	mathematical fraktur small r
U+1D530	s	s	s	s	s	s	s	\mfraks	mathematical fraktur small s
U+1D531	t	t	t	t	t	t	t	\mfrakt	mathematical fraktur small t
U+1D532	u	u	u	u	u	u	u	\mfraku	mathematical fraktur small u
U+1D533	v	v	v	v	v	v	v	\mfrakv	mathematical fraktur small v
U+1D534	w	w	w	w	w	w	w	\mfrakw	mathematical fraktur small w
U+1D535	x	x	x	x	x	x	x	\mfrakx	mathematical fraktur small x
U+1D536	y	y	y	y	y	y	y	\mfraky	mathematical fraktur small y
U+1D537	z	z	z	z	z	z	z	\mfrakz	mathematical fraktur small z

15.1.11 Blackboard, Latin, uppercase

USV	M	S	E	X	P	L	G	Macro	Description
U+1D538	A	A	A	A	A	A	A	\BbbA	mathematical double-struck capital a
U+1D539	B	B	B	B	B	B	B	\BbbB	mathematical double-struck capital b
U+1D53B	D	D	D	D	D	D	D	\BbbD	mathematical double-struck capital d
U+1D53C	E	E	E	E	E	E	E	\BbbE	mathematical double-struck capital e
U+1D53D	F	F	F	F	F	F	F	\BbbF	mathematical double-struck capital f
U+1D53E	G	G	G	G	G	G	G	\BbbG	mathematical double-struck capital g
U+1D540	I	I	I	I	I	I	I	\BbbI	mathematical double-struck capital i
U+1D541	J	J	J	J	J	J	J	\BbbJ	mathematical double-struck capital j
U+1D542	K	K	K	K	K	K	K	\BbbK	mathematical double-struck capital k
U+1D543	L	L	L	L	L	L	L	\BbbL	mathematical double-struck capital l
U+1D544	M	M	M	M	M	M	M	\BbbM	mathematical double-struck capital m

USV	M	S	E	X	P	L	G	Macro	Description
U+1D546	𝕆	𝕆	𝕆	𝕆	𝕆	𝕆	𝕆	\BbbO	mathematical double-struck capital o
U+1D54A	𝕊	𝕊	𝕊	𝕊	𝕊	𝕊	𝕊	\BbbS	mathematical double-struck capital s
U+1D54B	𝕋	𝕋	𝕋	𝕋	𝕋	𝕋	𝕋	\BbbT	mathematical double-struck capital t
U+1D54C	𝕌	𝕌	𝕌	𝕌	𝕌	𝕌	𝕌	\BbbU	mathematical double-struck capital u
U+1D54D	𝕍	𝕍	𝕍	𝕍	𝕍	𝕍	𝕍	\BbbV	mathematical double-struck capital v
U+1D54E	𝕎	𝕎	𝕎	𝕎	𝕎	𝕎	𝕎	\BbbW	mathematical double-struck capital w
U+1D54F	𝕏	𝕏	𝕏	𝕏	𝕏	𝕏	𝕏	\BbbX	mathematical double-struck capital x
U+1D550	𝕐	𝕐	𝕐	𝕐	𝕐	𝕐	𝕐	\BbbY	mathematical double-struck capital y

15.1.12 Blackboard, Latin, lowercase

USV	M	S	E	X	P	L	G	Macro	Description
U+1D552	𝕒	𝕒	𝕒	𝕒	𝕒	𝕒	𝕒	\Bbba	mathematical double-struck small a
U+1D553	𝕓	𝕓	𝕓	𝕓	𝕓	𝕓	𝕓	\Bbbb	mathematical double-struck small b
U+1D554	𝕔	𝕔	𝕔	𝕔	𝕔	𝕔	𝕔	\Bbbc	mathematical double-struck small c
U+1D555	𝕕	𝕕	𝕕	𝕕	𝕕	𝕕	𝕕	\Bbbd	mathematical double-struck small d
U+1D556	𝕖	𝕖	𝕖	𝕖	𝕖	𝕖	𝕖	\Bbbe	mathematical double-struck small e
U+1D557	𝕗	𝕗	𝕗	𝕗	𝕗	𝕗	𝕗	\Bbbf	mathematical double-struck small f
U+1D558	𝕘	𝕘	𝕘	𝕘	𝕘	𝕘	𝕘	\Bbbg	mathematical double-struck small g
U+1D559	𝕙	𝕙	𝕙	𝕙	𝕙	𝕙	𝕙	\Bbbh	mathematical double-struck small h
U+1D55A	𝕚	𝕚	𝕚	𝕚	𝕚	𝕚	𝕚	\Bbbi	mathematical double-struck small i
U+1D55B	𝕛	𝕛	𝕛	𝕛	𝕛	𝕛	𝕛	\Bbbj	mathematical double-struck small j
U+1D55C	𝕜	𝕜	𝕜	𝕜	𝕜	𝕜	𝕜	\Bbbk[a]	mathematical double-struck small k
U+1D55D	𝕝	𝕝	𝕝	𝕝	𝕝	𝕝	𝕝	\Bbbl	mathematical double-struck small l
U+1D55E	𝕞	𝕞	𝕞	𝕞	𝕞	𝕞	𝕞	\Bbbm	mathematical double-struck small m
U+1D55F	𝕟	𝕟	𝕟	𝕟	𝕟	𝕟	𝕟	\Bbbn	mathematical double-struck small n

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

15.1.13 Sans serif, Latin, uppercase

USV	M	S	E	X	P	L	G	Macro	Description
U+1D5A0	A	A	A	A	A	A	A	\msansA	mathematical sans-serif capital a
U+1D5A1	B	B	B	B	B	B	B	\msansB	mathematical sans-serif capital b
U+1D5A2	C	C	C	C	C	C	C	\msansC	mathematical sans-serif capital c
U+1D5A3	D	D	D	D	D	D	D	\msansD	mathematical sans-serif capital d
U+1D5A4	E	E	E	E	E	E	E	\msansE	mathematical sans-serif capital e
U+1D5A5	F	F	F	F	F	F	F	\msansF	mathematical sans-serif capital f
U+1D5A6	G	G	G	G	G	G	G	\msansG	mathematical sans-serif capital g
U+1D5A7	H	H	H	H	H	H	H	\msansH	mathematical sans-serif capital h
U+1D5A8	I	I	I	I	I	I	I	\msansI	mathematical sans-serif capital i
U+1D5A9	J	J	J	J	J	J	J	\msansJ	mathematical sans-serif capital j
U+1D5AA	K	K	K	K	K	K	K	\msansK	mathematical sans-serif capital k

USV	M	S	E	X	P	L	G	Macro	Description
U+1D5AB	L	L	L	L	L	L	L	\msansL	mathematical sans-serif capital l
U+1D5AC	M	M	M	M	M	M	M	\msansM	mathematical sans-serif capital m
U+1D5AD	N	N	N	N	N	N	N	\msansN	mathematical sans-serif capital n
U+1D5AE	O	O	O	O	O	O	O	\msansO	mathematical sans-serif capital o
U+1D5AF	P	P	P	P	P	P	P	\msansP	mathematical sans-serif capital p
U+1D5B0	Q	Q	Q	Q	Q	Q	Q	\msansQ	mathematical sans-serif capital q
U+1D5B1	R	R	R	R	R	R	R	\msansR	mathematical sans-serif capital r
U+1D5B2	S	S	S	S	S	S	S	\msansS	mathematical sans-serif capital s
U+1D5B3	T	T	T	T	T	T	T	\msansT	mathematical sans-serif capital t
U+1D5B4	U	U	U	U	U	U	U	\msansU	mathematical sans-serif capital u
U+1D5B5	V	V	V	V	V	V	V	\msansV	mathematical sans-serif capital v
U+1D5B6	W	W	W	W	W	W	W	\msansW	mathematical sans-serif capital w
U+1D5B7	X	X	X	X	X	X	X	\msansX	mathematical sans-serif capital x
U+1D5B8	Y	Y	Y	Y	Y	Y	Y	\msansY	mathematical sans-serif capital y
U+1D5B9	Z	Z	Z	Z	Z	Z	Z	\msansZ	mathematical sans-serif capital z

15.1.14 Sans serif, Latin, lowercase

USV	M	S	E	X	P	L	G	Macro	Description
U+1D5BA	a	a	a	a	a	a	a	\msansa	mathematical sans-serif small a
U+1D5BB	b	b	b	b	b	b	b	\msansb	mathematical sans-serif small b
U+1D5BC	c	c	c	c	c	c	c	\msansc	mathematical sans-serif small c
U+1D5BD	d	d	d	d	d	d	d	\msansd	mathematical sans-serif small d
U+1D5BE	e	e	e	e	e	e	e	\msanse	mathematical sans-serif small e
U+1D5BF	f	f	f	f	f	f	f	\msansf	mathematical sans-serif small f
U+1D5C0	g	g	g	g	g	g	g	\msansg	mathematical sans-serif small g
U+1D5C1	h	h	h	h	h	h	h	\msansh	mathematical sans-serif small h
U+1D5C2	i	i	i	i	i	i	i	\msansi	mathematical sans-serif small i
U+1D5C3	j	j	j	j	j	j	j	\msansj	mathematical sans-serif small j

USV	M	S	E	X	P	L	G	Macro	Description
U+1D5C4	k	k	k	k	k	k	k	\msansk	mathematical sans-serif small k
U+1D5C5	l	l	l	l	l	l	l	\msansl	mathematical sans-serif small l
U+1D5C6	m	m	m	m	m	m	m	\msansm	mathematical sans-serif small m
U+1D5C7	n	n	n	n	n	n	n	\msansn	mathematical sans-serif small n
U+1D5C8	o	o	o	o	o	o	o	\msanso	mathematical sans-serif small o
U+1D5C9	p	p	p	p	p	p	p	\msansp	mathematical sans-serif small p
U+1D5CA	q	q	q	q	q	q	q	\msansq	mathematical sans-serif small q
U+1D5CB	r	r	r	r	r	r	r	\msansr	mathematical sans-serif small r
U+1D5CC	s	s	s	s	s	s	s	\msanss	mathematical sans-serif small s
U+1D5CD	t	t	t	t	t	t	t	\msanst	mathematical sans-serif small t
U+1D5CE	u	u	u	u	u	u	u	\msansu	mathematical sans-serif small u
U+1D5CF	v	v	v	v	v	v	v	\msansv	mathematical sans-serif small v
U+1D5D0	w	w	w	w	w	w	w	\msansw	mathematical sans-serif small w
U+1D5D1	x	x	x	x	x	x	x	\msansx	mathematical sans-serif small x
U+1D5D2	y	y	y	y	y	y	y	\msansy	mathematical sans-serif small y
U+1D5D3	z	z	z	z	z	z	z	\msansz	mathematical sans-serif small z

15.1.15 Italic sans serif, Latin, uppercase

USV	M	S	E	X	P	L	G	Macro	Description
U+1D608	A	A	A	A	A	A	A	\mitsansA	mathematical sans-serif italic capital a
U+1D609	B	B	B	B	B	B	B	\mitsansB	mathematical sans-serif italic capital b
U+1D60A	C	C	C	C	C	C	C	\mitsansC	mathematical sans-serif italic capital c
U+1D60B	D	D	D	D	D	D	D	\mitsansD	mathematical sans-serif italic capital d
U+1D60C	E	E	E	E	E	E	E	\mitsansE	mathematical sans-serif italic capital e
U+1D60D	F	F	F	F	F	F	F	\mitsansF	mathematical sans-serif italic capital f
U+1D60E	G	G	G	G	G	G	G	\mitsansG	mathematical sans-serif italic capital g
U+1D60F	H	H	H	H	H	H	H	\mitsansH	mathematical sans-serif italic capital h
U+1D610	I	I	I	I	I	I	I	\mitsansI	mathematical sans-serif italic capital i
U+1D611	J	J	J	J	J	J	J	\mitsansJ	mathematical sans-serif italic capital j

USV	M	S	E	X	P	L	G	Macro	Description
U+1D612	*K*	*K*	*K*	*K*	*K*	*K*	*K*	\mitsansK	mathematical sans-serif italic capital k
U+1D613	*L*	*L*	*L*	*L*	*L*	*L*	*L*	\mitsansL	mathematical sans-serif italic capital l
U+1D614	*M*	*M*	*M*	*M*	*M*	*M*	*M*	\mitsansM	mathematical sans-serif italic capital m
U+1D615	*N*	*N*	*N*	*N*	*N*	*N*	*N*	\mitsansN	mathematical sans-serif italic capital n
U+1D616	*O*	*O*	*O*	*O*	*O*	*O*	*O*	\mitsansO	mathematical sans-serif italic capital o
U+1D617	*P*	*P*	*P*	*P*	*P*	*P*	*P*	\mitsansP	mathematical sans-serif italic capital p
U+1D618	*Q*	*Q*	*Q*	*Q*	*Q*	*Q*	*Q*	\mitsansQ	mathematical sans-serif italic capital q
U+1D619	*R*	*R*	*R*	*R*	*R*	*R*	*R*	\mitsansR	mathematical sans-serif italic capital r
U+1D61A	*S*	*S*	*S*	*S*	*S*	*S*	*S*	\mitsansS	mathematical sans-serif italic capital s
U+1D61B	*T*	*T*	*T*	*T*	*T*	*T*	*T*	\mitsansT	mathematical sans-serif italic capital t
U+1D61C	*U*	*U*	*U*	*U*	*U*	*U*	*U*	\mitsansU	mathematical sans-serif italic capital u
U+1D61D	*V*	*V*	*V*	*V*	*V*	*V*	*V*	\mitsansV	mathematical sans-serif italic capital v
U+1D61E	*W*	*W*	*W*	*W*	*W*	*W*	*W*	\mitsansW	mathematical sans-serif italic capital w
U+1D61F	*X*	*X*	*X*	*X*	*X*	*X*	*X*	\mitsansX	mathematical sans-serif italic capital x
U+1D620	*Y*	*Y*	*Y*	*Y*	*Y*	*Y*	*Y*	\mitsansY	mathematical sans-serif italic capital y
U+1D621	*Z*	*Z*	*Z*	*Z*	*Z*	*Z*	*Z*	\mitsansZ	mathematical sans-serif italic capital z

15.1.16 Italic sans serif, Latin, lowercase

USV	M	S	E	X	P	L	G	Macro	Description
U+1D622	*a*	*a*	*a*	*a*	*a*	*a*	*a*	\mitsansa	mathematical sans-serif italic small a
U+1D623	*b*	*b*	*b*	*b*	*b*	*b*	*b*	\mitsansb	mathematical sans-serif italic small b
U+1D624	*c*	*c*	*c*	*c*	*c*	*c*	*c*	\mitsansc	mathematical sans-serif italic small c
U+1D625	*d*	*d*	*d*	*d*	*d*	*d*	*d*	\mitsansd	mathematical sans-serif italic small d
U+1D626	*e*	*e*	*e*	*e*	*e*	*e*	*e*	\mitsanse	mathematical sans-serif italic small e
U+1D627	*f*	*f*	*f*	*f*	*f*	*f*	*f*	\mitsansf	mathematical sans-serif italic small f

USV	M	S	E	X	P	L	G	Macro	Description
U+1D628	*g*	*g*	*g*	*g*	*g*	*g*	*g*	\mitsansg	mathematical sans-serif italic small g
U+1D629	*h*	*h*	*h*	*h*	*h*	*h*	*h*	\mitsansh	mathematical sans-serif italic small h
U+1D62A	*i*	*i*	*i*	*i*	*i*	*i*	*i*	\mitsansi	mathematical sans-serif italic small i
U+1D62B	*j*	*j*	*j*	*j*	*j*	*j*	*j*	\mitsansj	mathematical sans-serif italic small j
U+1D62C	*k*	*k*	*k*	*k*	*k*	*k*	*k*	\mitsansk	mathematical sans-serif italic small k
U+1D62D	*l*	*l*	*l*	*l*	*l*	*l*	*l*	\mitsansl	mathematical sans-serif italic small l
U+1D62E	*m*	*m*	*m*	*m*	*m*	*m*	*m*	\mitsansm	mathematical sans-serif italic small m
U+1D62F	*n*	*n*	*n*	*n*	*n*	*n*	*n*	\mitsansn	mathematical sans-serif italic small n
U+1D630	*o*	*o*	*o*	*o*	*o*	*o*	*o*	\mitsanso	mathematical sans-serif italic small o
U+1D631	*p*	*p*	*p*	*p*	*p*	*p*	*p*	\mitsansp	mathematical sans-serif italic small p
U+1D632	*q*	*q*	*q*	*q*	*q*	*q*	*q*	\mitsansq	mathematical sans-serif italic small q
U+1D633	*r*	*r*	*r*	*r*	*r*	*r*	*r*	\mitsansr	mathematical sans-serif italic small r
U+1D634	*s*	*s*	*s*	*s*	*s*	*s*	*s*	\mitsanss	mathematical sans-serif italic small s
U+1D635	*t*	*t*	*t*	*t*	*t*	*t*	*t*	\mitsanst	mathematical sans-serif italic small t
U+1D636	*u*	*u*	*u*	*u*	*u*	*u*	*u*	\mitsansu	mathematical sans-serif italic small u
U+1D637	*v*	*v*	*v*	*v*	*v*	*v*	*v*	\mitsansv	mathematical sans-serif italic small v
U+1D638	*w*	*w*	*w*	*w*	*w*	*w*	*w*	\mitsansw	mathematical sans-serif italic small w
U+1D639	*x*	*x*	*x*	*x*	*x*	*x*	*x*	\mitsansx	mathematical sans-serif italic small x
U+1D63A	*y*	*y*	*y*	*y*	*y*	*y*	*y*	\mitsansy	mathematical sans-serif italic small y
U+1D63B	*z*	*z*	*z*	*z*	*z*	*z*	*z*	\mitsansz	mathematical sans-serif italic small z

15.1.17 Typewriter, Latin, uppercase

USV	M	S	E	X	P	L	G	Macro	Description
U+1D670	A	A	A	A	A	A	A	\mttA	mathematical monospace capital a
U+1D671	B	B	B	B	B	B	B	\mttB	mathematical monospace capital b

USV	M	S	E	X	P	L	G	Macro	Description
U+1D672	C	C	C	C	C	C	C	\mttC	mathematical monospace capital c
U+1D673	D	D	D	D	D	D	D	\mttD	mathematical monospace capital d
U+1D674	E	E	E	E	E	E	E	\mttE	mathematical monospace capital e
U+1D675	F	F	F	F	F	F	F	\mttF	mathematical monospace capital f
U+1D676	G	G	G	G	G	G	G	\mttG	mathematical monospace capital g
U+1D677	H	H	H	H	H	H	H	\mttH	mathematical monospace capital h
U+1D678	I	I	I	I	I	I	I	\mttI	mathematical monospace capital i
U+1D679	J	J	J	J	J	J	J	\mttJ	mathematical monospace capital j
U+1D67A	K	K	K	K	K	K	K	\mttK	mathematical monospace capital k
U+1D67B	L	L	L	L	L	L	L	\mttL	mathematical monospace capital l
U+1D67C	M	M	M	M	M	M	M	\mttM	mathematical monospace capital m
U+1D67D	N	N	N	N	N	N	N	\mttN	mathematical monospace capital n
U+1D67E	O	O	O	O	O	O	O	\mttO	mathematical monospace capital o
U+1D67F	P	P	P	P	P	P	P	\mttP	mathematical monospace capital p
U+1D680	Q	Q	Q	Q	Q	Q	Q	\mttQ	mathematical monospace capital q
U+1D681	R	R	R	R	R	R	R	\mttR	mathematical monospace capital r
U+1D682	S	S	S	S	S	S	S	\mttS	mathematical monospace capital s
U+1D683	T	T	T	T	T	T	T	\mttT	mathematical monospace capital t
U+1D684	U	U	U	U	U	U	U	\mttU	mathematical monospace capital u
U+1D685	V	V	V	V	V	V	V	\mttV	mathematical monospace capital v
U+1D686	W	W	W	W	W	W	W	\mttW	mathematical monospace capital w
U+1D687	X	X	X	X	X	X	X	\mttX	mathematical monospace capital x
U+1D688	Y	Y	Y	Y	Y	Y	Y	\mttY	mathematical monospace capital y
U+1D689	Z	Z	Z	Z	Z	Z	Z	\mttZ	mathematical monospace capital z

15.1.18 Typewriter, Latin, lowercase

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

USV	M	S	E	X	P	L	G	Macro	Description
U+1D6A0	w	w	w	w	w	w	w	\mttw	mathematical monospace small w
U+1D6A1	x	x	x	x	x	x	x	\mttx	mathematical monospace small x
U+1D6A2	y	y	y	y	y	y	y	\mtty	mathematical monospace small y
U+1D6A3	z	z	z	z	z	z	z	\mttz	mathematical monospace small z

15.2 Bold

15.2.1 Bold, Latin, uppercase

USV	M	S	E	X	P	L	G	Macro	Description
U+1D400	A	A	A	A	A	A	A	\mbfA	mathematical bold capital a
U+1D401	B	B	B	B	B	B	B	\mbfB	mathematical bold capital b
U+1D402	C	C	C	C	C	C	C	\mbfC	mathematical bold capital c
U+1D403	D	D	D	D	D	D	D	\mbfD	mathematical bold capital d
U+1D404	E	E	E	E	E	E	E	\mbfE	mathematical bold capital e
U+1D405	F	F	F	F	F	F	F	\mbfF	mathematical bold capital f
U+1D406	G	G	G	G	G	G	G	\mbfG	mathematical bold capital g
U+1D407	H	H	H	H	H	H	H	\mbfH	mathematical bold capital h
U+1D408	I	I	I	I	I	I	I	\mbfI	mathematical bold capital i
U+1D409	J	J	J	J	J	J	J	\mbfJ	mathematical bold capital j
U+1D40A	K	K	K	K	K	K	K	\mbfK	mathematical bold capital k
U+1D40B	L	L	L	L	L	L	L	\mbfL	mathematical bold capital l
U+1D40C	M	M	M	M	M	M	M	\mbfM	mathematical bold capital m
U+1D40D	N	N	N	N	N	N	N	\mbfN	mathematical bold capital n
U+1D40E	O	O	O	O	O	O	O	\mbfO	mathematical bold capital o
U+1D40F	P	P	P	P	P	P	P	\mbfP	mathematical bold capital p
U+1D410	Q	Q	Q	Q	Q	Q	Q	\mbfQ	mathematical bold capital q
U+1D411	R	R	R	R	R	R	R	\mbfR	mathematical bold capital r
U+1D412	S	S	S	S	S	S	S	\mbfS	mathematical bold capital s
U+1D413	T	T	T	T	T	T	T	\mbfT	mathematical bold capital t
U+1D414	U	U	U	U	U	U	U	\mbfU	mathematical bold capital u
U+1D415	V	V	V	V	V	V	V	\mbfV	mathematical bold capital v
U+1D416	W	W	W	W	W	W	W	\mbfW	mathematical bold capital w

USV	M	S	E	X	P	L	G	Macro	Description
U+1D417	X	X	X	X	X	X	X	\mbfX	mathematical bold capital x
U+1D418	Y	Y	Y	Y	Y	Y	Y	\mbfY	mathematical bold capital y
U+1D419	Z	Z	Z	Z	Z	Z	Z	\mbfZ	mathematical bold capital z

15.2.2   Bold, Latin, lowercase

USV	M	S	E	X	P	L	G	Macro	Description
U+1D41A	a	a	a	a	a	a	a	\mbfa	mathematical bold small a
U+1D41B	b	b	b	b	b	b	b	\mbfb	mathematical bold small b
U+1D41C	c	c	c	c	c	c	c	\mbfc	mathematical bold small c
U+1D41D	d	d	d	d	d	d	d	\mbfd	mathematical bold small d
U+1D41E	e	e	e	e	e	e	e	\mbfe	mathematical bold small e
U+1D41F	f	f	f	f	f	f	f	\mbff	mathematical bold small f
U+1D420	g	g	g	g	g	g	g	\mbfg	mathematical bold small g
U+1D421	h	h	h	h	h	h	h	\mbfh	mathematical bold small h
U+1D422	i	i	i	i	i	i	i	\mbfi	mathematical bold small i
U+1D423	j	j	j	j	j	j	j	\mbfj	mathematical bold small j
U+1D424	k	k	k	k	k	k	k	\mbfk	mathematical bold small k
U+1D425	l	l	l	l	l	l	l	\mbfl	mathematical bold small l
U+1D426	m	m	m	m	m	m	m	\mbfm	mathematical bold small m
U+1D427	n	n	n	n	n	n	n	\mbfn	mathematical bold small n
U+1D428	o	o	o	o	o	o	o	\mbfo	mathematical bold small o
U+1D429	p	p	p	p	p	p	p	\mbfp	mathematical bold small p
U+1D42A	q	q	q	q	q	q	q	\mbfq	mathematical bold small q
U+1D42B	r	r	r	r	r	r	r	\mbfr	mathematical bold small r
U+1D42C	s	s	s	s	s	s	s	\mbfs	mathematical bold small s
U+1D42D	t	t	t	t	t	t	t	\mbft	mathematical bold small t
U+1D42E	u	u	u	u	u	u	u	\mbfu	mathematical bold small u
U+1D42F	v	v	v	v	v	v	v	\mbfv	mathematical bold small v
U+1D430	w	w	w	w	w	w	w	\mbfw	mathematical bold small w
U+1D431	x	x	x	x	x	x	x	\mbfx	mathematical bold small x
U+1D432	y	y	y	y	y	y	y	\mbfy	mathematical bold small y
U+1D433	z	z	z	z	z	z	z	\mbfz	mathematical bold small z

15.2.3 Bold Greek, uppercase

USV	M	S	E	X	P	L	G	Macro	Description
U+1D6A8	Α	Α	Α	Α	Α	Α	Α	\mbfAlpha	mathematical bold capital alpha
U+1D6A9	Β	Β	Β	Β	Β	Β	Β	\mbfBeta	mathematical bold capital beta
U+1D6AA	Γ	Γ	Γ	Γ	Γ	Γ	Γ	\mbfGamma	mathematical bold capital gamma
U+1D6AB	Δ	Δ	Δ	Δ	Δ	Δ	Δ	\mbfDelta	mathematical bold capital delta
U+1D6AC	Ε	Ε	Ε	Ε	Ε	Ε	Ε	\mbfEpsilon	mathematical bold capital epsilon
U+1D6AD	Ζ	Ζ	Ζ	Ζ	Ζ	Ζ	Ζ	\mbfZeta	mathematical bold capital zeta
U+1D6AE	Η	Η	Η	Η	Η	Η	Η	\mbfEta	mathematical bold capital eta
U+1D6AF	Θ	Θ	Θ	Θ	Θ	Θ	Θ	\mbfTheta	mathematical bold capital theta
U+1D6B0	Ι	Ι	Ι	Ι	Ι	Ι	Ι	\mbfIota	mathematical bold capital iota
U+1D6B1	Κ	Κ	Κ	Κ	Κ	Κ	Κ	\mbfKappa	mathematical bold capital kappa
U+1D6B2	Λ	Λ	Λ	Λ	Λ	Λ	Λ	\mbfLambda	mathematical bold capital lambda
U+1D6B3	Μ	Μ	Μ	Μ	Μ	Μ	Μ	\mbfMu	mathematical bold capital mu
U+1D6B4	Ν	Ν	Ν	Ν	Ν	Ν	Ν	\mbfNu	mathematical bold capital nu
U+1D6B5	Ξ	Ξ	Ξ	Ξ	Ξ	Ξ	Ξ	\mbfXi	mathematical bold capital xi
U+1D6B6	Ο	Ο	Ο	Ο	Ο	Ο	Ο	\mbfOmicron	mathematical bold capital omicron
U+1D6B7	Π	Π	Π	Π	Π	Π	Π	\mbfPi	mathematical bold capital pi
U+1D6B8	Ρ	Ρ	Ρ	Ρ	Ρ	Ρ	Ρ	\mbfRho	mathematical bold capital rho
U+1D6B9	Θ	Θ	Θ	Θ	Θ	Θ	Θ	\mbfvarTheta	mathematical bold capital theta symbol
U+1D6BA	Σ	Σ	Σ	Σ	Σ	Σ	Σ	\mbfSigma	mathematical bold capital sigma
U+1D6BB	Τ	Τ	Τ	Τ	Τ	Τ	Τ	\mbfTau	mathematical bold capital tau
U+1D6BC	Υ	Υ	Υ	Υ	Υ	Υ	Υ	\mbfUpsilon	mathematical bold capital upsilon
U+1D6BD	Φ	Φ	Φ	Φ	Φ	Φ	Φ	\mbfPhi	mathematical bold capital phi
U+1D6BE	Χ	Χ	Χ	Χ	Χ	Χ	Χ	\mbfChi	mathematical bold capital chi
U+1D6BF	Ψ	Ψ	Ψ	Ψ	Ψ	Ψ	Ψ	\mbfPsi	mathematical bold capital psi
U+1D6C0	Ω	Ω	Ω	Ω	Ω	Ω	Ω	\mbfOmega	mathematical bold capital omega

15.2.4 Bold Greek, lowercase

USV	M	S	E	X	P	L	G	Macro	Description
U+1D6C2	α	α	α	α	α	α	α	\mbfalpha	mathematical bold small alpha
U+1D6C3	β	β	β	β	β	β	β	\mbfbeta	mathematical bold small beta
U+1D6C4	γ	γ	γ	γ	γ	γ	γ	\mbfgamma	mathematical bold small gamma
U+1D6C5	δ	δ	δ	δ	δ	δ	δ	\mbfdelta	mathematical bold small delta
U+1D6C6	ε	ε	ε	ε	ε	ε	ε	\mbfvarepsilon	mathematical bold small varepsilon
U+1D6C7	ζ	ζ	ζ	ζ	ζ	ζ	ζ	\mbfzeta	mathematical bold small zeta
U+1D6C8	η	η	η	η	η	η	η	\mbfeta	mathematical bold small eta
U+1D6C9	θ	θ	θ	θ	θ	θ	θ	\mbftheta	mathematical bold small theta
U+1D6CA	ι	ι	ι	ι	ι	ι	ι	\mbfiota	mathematical bold small iota
U+1D6CB	κ	κ	κ	κ	κ	κ	κ	\mbfkappa	mathematical bold small kappa
U+1D6CC	λ	λ	λ	λ	λ	λ	λ	\mbflambda	mathematical bold small lambda
U+1D6CD	μ	μ	μ	μ	μ	μ	μ	\mbfmu	mathematical bold small mu
U+1D6CE	ν	ν	ν	ν	ν	ν	ν	\mbfnu	mathematical bold small nu
U+1D6CF	ξ	ξ	ξ	ξ	ξ	ξ	ξ	\mbfxi	mathematical bold small xi
U+1D6D0	ο	ο	ο	ο	ο	ο	ο	\mbfomicron	mathematical bold small omicron
U+1D6D1	π	π	π	π	π	π	π	\mbfpi	mathematical bold small pi
U+1D6D2	ρ	ρ	ρ	ρ	ρ	ρ	ρ	\mbfrho	mathematical bold small rho
U+1D6D3	ς	ς	ς	ς	ς	ς	ς	\mbfvarsigma	mathematical bold small final sigma
U+1D6D4	σ	σ	σ	σ	σ	σ	σ	\mbfsigma	mathematical bold small sigma
U+1D6D5	τ	τ	τ	τ	τ	τ	τ	\mbftau	mathematical bold small tau
U+1D6D6	υ	υ	υ	υ	υ	υ	υ	\mbfupsilon	mathematical bold small upsilon
U+1D6D7	φ	φ	φ	φ	φ	φ	φ	\mbfvarphi	mathematical bold small phi
U+1D6D8	χ	χ	χ	χ	χ	χ	χ	\mbfchi	mathematical bold small chi
U+1D6D9	ψ	ψ	ψ	ψ	ψ	ψ	ψ	\mbfpsi	mathematical bold small psi
U+1D6DA	ω	ω	ω	ω	ω	ω	ω	\mbfomega	mathematical bold small omega
U+1D6DB	∂	∂	∂	∂	∂	∂	∂	\mbfpartial	mathematical bold partial differential
U+1D6DC	ϵ	ϵ	ϵ	ϵ	ϵ	ϵ	ϵ	\mbfepsilon	mathematical bold varepsilon symbol
U+1D6DD	ϑ	ϑ	ϑ	ϑ	ϑ	ϑ	ϑ	\mbfvartheta	mathematical bold theta symbol
U+1D6DE	ϰ	ϰ	ϰ	ϰ	ϰ	ϰ	ϰ	\mbfvarkappa	mathematical bold kappa symbol
U+1D6DF	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	\mbfphi	mathematical bold phi symbol
U+1D6E0	ϱ	ϱ	ϱ	ϱ	ϱ	ϱ	ϱ	\mbfvarrho	mathematical bold rho symbol

USV	M	S	E	X	P	L	G	Macro	Description
U+1D6E1	ϖ	ϖ	ϖ	ϖ	ϖ	ϖ	ϖ	\mbfvarpi	mathematical bold pi symbol

15.2.5 Bold italic, Latin, uppercase

USV	M	S	E	X	P	L	G	Macro	Description
U+1D468	*A*	*A*	*A*	*A*	*A*	*A*	*A*	\mbfitA	mathematical bold italic capital a
U+1D469	*B*	*B*	*B*	*B*	*B*	*B*	*B*	\mbfitB	mathematical bold italic capital b
U+1D46A	*C*	*C*	*C*	*C*	*C*	*C*	*C*	\mbfitC	mathematical bold italic capital c
U+1D46B	*D*	*D*	*D*	*D*	*D*	*D*	*D*	\mbfitD	mathematical bold italic capital d
U+1D46C	*E*	*E*	*E*	*E*	*E*	*E*	*E*	\mbfitE	mathematical bold italic capital e
U+1D46D	*F*	*F*	*F*	*F*	*F*	*F*	*F*	\mbfitF	mathematical bold italic capital f
U+1D46E	*G*	*G*	*G*	*G*	*G*	*G*	*G*	\mbfitG	mathematical bold italic capital g
U+1D46F	*H*	*H*	*H*	*H*	*H*	*H*	*H*	\mbfitH	mathematical bold italic capital h
U+1D470	*I*	*I*	*I*	*I*	*I*	*I*	*I*	\mbfitI	mathematical bold italic capital i
U+1D471	*J*	*J*	*J*	*J*	*J*	*J*	*J*	\mbfitJ	mathematical bold italic capital j
U+1D472	*K*	*K*	*K*	*K*	*K*	*K*	*K*	\mbfitK	mathematical bold italic capital k
U+1D473	*L*	*L*	*L*	*L*	*L*	*L*	*L*	\mbfitL	mathematical bold italic capital l
U+1D474	*M*	*M*	*M*	*M*	*M*	*M*	*M*	\mbfitM	mathematical bold italic capital m
U+1D475	*N*	*N*	*N*	*N*	*N*	*N*	*N*	\mbfitN	mathematical bold italic capital n
U+1D476	*O*	*O*	*O*	*O*	*O*	*O*	*O*	\mbfitO	mathematical bold italic capital o
U+1D477	*P*	*P*	*P*	*P*	*P*	*P*	*P*	\mbfitP	mathematical bold italic capital p
U+1D478	*Q*	*Q*	*Q*	*Q*	*Q*	*Q*	*Q*	\mbfitQ	mathematical bold italic capital q
U+1D479	*R*	*R*	*R*	*R*	*R*	*R*	*R*	\mbfitR	mathematical bold italic capital r
U+1D47A	*S*	*S*	*S*	*S*	*S*	*S*	*S*	\mbfitS	mathematical bold italic capital s
U+1D47B	*T*	*T*	*T*	*T*	*T*	*T*	*T*	\mbfitT	mathematical bold italic capital t
U+1D47C	*U*	*U*	*U*	*U*	*U*	*U*	*U*	\mbfitU	mathematical bold italic capital u

USV	M	S	E	X	P	L	G	Macro	Description
U+1D47D	V	V	V	V	V	V	V	\mbfitV	mathematical bold italic capital v
U+1D47E	W	W	W	W	W	W	W	\mbfitW	mathematical bold italic capital w
U+1D47F	X	X	X	X	X	X	X	\mbfitX	mathematical bold italic capital x
U+1D480	Y	Y	Y	Y	Y	Y	Y	\mbfitY	mathematical bold italic capital y
U+1D481	Z	Z	Z	Z	Z	Z	Z	\mbfitZ	mathematical bold italic capital z

15.2.6 Bold italic, Latin, lowercase

USV	M	S	E	X	P	L	G	Macro	Description
U+1D482	a	a	a	a	a	a	a	\mbfita	mathematical bold italic small a
U+1D483	b	b	b	b	b	b	b	\mbfitb	mathematical bold italic small b
U+1D484	c	c	c	c	c	c	c	\mbfitc	mathematical bold italic small c
U+1D485	d	d	d	d	d	d	d	\mbfitd	mathematical bold italic small d
U+1D486	e	e	e	e	e	e	e	\mbfite	mathematical bold italic small e
U+1D487	f	f	f	f	f	f	f	\mbfitf	mathematical bold italic small f
U+1D488	g	g	g	g	g	g	g	\mbfitg	mathematical bold italic small g
U+1D489	h	h	h	h	h	h	h	\mbfith	mathematical bold italic small h
U+1D48A	i	i	i	i	i	i	i	\mbfiti	mathematical bold italic small i
U+1D48B	j	j	j	j	j	j	j	\mbfitj	mathematical bold italic small j
U+1D48C	k	k	k	k	k	k	k	\mbfitk	mathematical bold italic small k
U+1D48D	l	l	l	l	l	l	l	\mbfitl	mathematical bold italic small l
U+1D48E	m	m	m	m	m	m	m	\mbfitm	mathematical bold italic small m
U+1D48F	n	n	n	n	n	n	n	\mbfitn	mathematical bold italic small n
U+1D490	o	o	o	o	o	o	o	\mbfito	mathematical bold italic small o
U+1D491	p	p	p	p	p	p	p	\mbfitp	mathematical bold italic small p
U+1D492	q	q	q	q	q	q	q	\mbfitq	mathematical bold italic small q
U+1D493	r	r	r	r	r	r	r	\mbfitr	mathematical bold italic small r
U+1D494	s	s	s	s	s	s	s	\mbfits	mathematical bold italic small s
U+1D495	t	t	t	t	t	t	t	\mbfitt	mathematical bold italic small t
U+1D496	u	u	u	u	u	u	u	\mbfitu	mathematical bold italic small u
U+1D497	v	v	v	v	v	v	v	\mbfitv	mathematical bold italic small v
U+1D498	w	w	w	w	w	w	w	\mbfitw	mathematical bold italic small w

USV	M	S	E	X	P	L	G	Macro	Description
U+1D499	*x*	*x*	*x*	*x*	*x*	*x*	*x*	\mbfitx	mathematical bold italic small x
U+1D49A	*y*	*y*	*y*	*y*	*y*	*y*	*y*	\mbfity	mathematical bold italic small y
U+1D49B	*z*	*z*	*z*	*z*	*z*	*z*	*z*	\mbfitz	mathematical bold italic small z

15.2.7 Bold italic Greek, uppercase

USV	M	S	E	X	P	L	G	Macro	Description
U+1D71C	*A*	*A*	*A*	*A*	*A*	*A*	*A*	\mbfitAlpha	mathematical bold italic capital alpha
U+1D71D	*B*	*B*	*B*	*B*	*B*	*B*	*B*	\mbfitBeta	mathematical bold italic capital beta
U+1D71E	*Γ*	*Γ*	*Γ*	*Γ*	*Γ*	*Γ*	*Γ*	\mbfitGamma	mathematical bold italic capital gamma
U+1D71F	*Δ*	*Δ*	*Δ*	*Δ*	*Δ*	*Δ*	*Δ*	\mbfitDelta	mathematical bold italic capital delta
U+1D720	*E*	*E*	*E*	*E*	*E*	*E*	*E*	\mbfitEpsilon	mathematical bold italic capital epsilon
U+1D721	*Z*	*Z*	*Z*	*Z*	*Z*	*Z*	*Z*	\mbfitZeta	mathematical bold italic capital zeta
U+1D722	*H*	*H*	*H*	*H*	*H*	*H*	*H*	\mbfitEta	mathematical bold italic capital eta
U+1D723	*Θ*	*Θ*	*Θ*	*Θ*	*Θ*	*Θ*	*Θ*	\mbfitTheta	mathematical bold italic capital theta
U+1D724	*I*	*I*	*I*	*I*	*I*	*I*	*I*	\mbfitIota	mathematical bold italic capital iota
U+1D725	*K*	*K*	*K*	*K*	*K*	*K*	*K*	\mbfitKappa	mathematical bold italic capital kappa
U+1D726	*Λ*	*Λ*	*Λ*	*Λ*	*Λ*	*Λ*	*Λ*	\mbfitLambda	mathematical bold italic capital lambda
U+1D727	*M*	*M*	*M*	*M*	*M*	*M*	*M*	\mbfitMu	mathematical bold italic capital mu
U+1D728	*N*	*N*	*N*	*N*	*N*	*N*	*N*	\mbfitNu	mathematical bold italic capital nu
U+1D729	*Ξ*	*Ξ*	*Ξ*	*Ξ*	*Ξ*	*Ξ*	*Ξ*	\mbfitXi	mathematical bold italic capital xi
U+1D72A	*O*	*O*	*O*	*O*	*O*	*O*	*O*	\mbfitOmicron	mathematical bold italic capital omicron
U+1D72B	*Π*	*Π*	*Π*	*Π*	*Π*	*Π*	*Π*	\mbfitPi	mathematical bold italic capital pi
U+1D72C	*P*	*P*	*P*	*P*	*P*	*P*	*P*	\mbfitRho	mathematical bold italic capital rho
U+1D72D	*Θ*	*θ*	*θ*	*θ*	*Θ*	*Θ*	*θ*	\mbfitvarTheta	mathematical bold italic capital theta symbol
U+1D72E	*Σ*	*Σ*	*Σ*	*Σ*	*Σ*	*Σ*	*Σ*	\mbfitSigma	mathematical bold italic capital sigma

USV	M	S	E	X	P	L	G	Macro	Description
U+1D72F	*T*	*T*	*T*	*T*	*T*	*T*	*T*	\mbfitTau	mathematical bold italic capital tau
U+1D730	*Υ*	*Υ*	*Υ*	*Υ*	*Υ*	*Υ*	*Υ*	\mbfitUpsilon	mathematical bold italic capital upsilon
U+1D731	*Φ*	*Φ*	*Φ*	*Φ*	*Φ*	*Φ*	*Φ*	\mbfitPhi	mathematical bold italic capital phi
U+1D732	*X*	*X*	*X*	*X*	*X*	*X*	*X*	\mbfitChi	mathematical bold italic capital chi
U+1D733	*Ψ*	*Ψ*	*Ψ*	*Ψ*	*Ψ*	*Ψ*	*Ψ*	\mbfitPsi	mathematical bold italic capital psi
U+1D734	*Ω*	*Ω*	*Ω*	*Ω*	*Ω*	*Ω*	*Ω*	\mbfitOmega	mathematical bold italic capital omega

15.2.8 Bold italic Greek, lowercase

USV	M	S	E	X	P	L	G	Macro	Description
U+1D736	*α*	*α*	*α*	*α*	*α*	*α*	*α*	\mbfitalpha	mathematical bold italic small alpha
U+1D737	*β*	*β*	*β*	*β*	*β*	*β*	*β*	\mbfitbeta	mathematical bold italic small beta
U+1D738	*γ*	*γ*	*γ*	*γ*	*γ*	*γ*	*γ*	\mbfitgamma	mathematical bold italic small gamma
U+1D739	*δ*	*δ*	*δ*	*δ*	*δ*	*δ*	*δ*	\mbfitdelta	mathematical bold italic small delta
U+1D73A	*ε*	*ε*	*ε*	*ε*	*ε*	*ε*	*ε*	\mbfitvarepsilon	mathematical bold italic small varepsilon
U+1D73B	*ζ*	*ζ*	*ζ*	*ζ*	*ζ*	*ζ*	*ζ*	\mbfitzeta	mathematical bold italic small zeta
U+1D73C	*η*	*η*	*η*	*η*	*η*	*η*	*η*	\mbfiteta	mathematical bold italic small eta
U+1D73D	*θ*	*θ*	*θ*	*θ*	*θ*	*θ*	*θ*	\mbfittheta	mathematical bold italic small theta
U+1D73E	*ι*	*ι*	*ι*	*ι*	*ι*	*ι*	*ι*	\mbfitiota	mathematical bold italic small iota
U+1D73F	*κ*	*κ*	*κ*	*κ*	*κ*	*κ*	*κ*	\mbfitkappa	mathematical bold italic small kappa
U+1D740	*λ*	*λ*	*λ*	*λ*	*λ*	*λ*	*λ*	\mbfitlambda	mathematical bold italic small lambda
U+1D741	*μ*	*μ*	*μ*	*μ*	*μ*	*μ*	*μ*	\mbfitmu	mathematical bold italic small mu
U+1D742	*ν*	*ν*	*ν*	*ν*	*ν*	*ν*	*ν*	\mbfitnu	mathematical bold italic small nu
U+1D743	*ξ*	*ξ*	*ξ*	*ξ*	*ξ*	*ξ*	*ξ*	\mbfitxi	mathematical bold italic small xi
U+1D744	*ο*	*ο*	*ο*	*ο*	*ο*	*ο*	*ο*	\mbfitomicron	mathematical bold italic small omicron
U+1D745	*π*	*π*	*π*	*π*	*π*	*π*	*π*	\mbfitpi	mathematical bold italic small pi

USV	M	S	E	X	P	L	G	Macro	Description
U+1D746	ρ	ρ	ρ	ρ	ρ	ρ	ρ	\mbfitrho	mathematical bold italic small rho
U+1D747	ς	ς	ς	ς	ς	ς	ς	\mbfitvarsigma	mathematical bold italic small final sigma
U+1D748	σ	σ	σ	σ	σ	σ	σ	\mbfitsigma	mathematical bold italic small sigma
U+1D749	τ	τ	τ	τ	τ	τ	τ	\mbfittau	mathematical bold italic small tau
U+1D74A	υ	υ	υ	υ	υ	υ	υ	\mbfitupsilon	mathematical bold italic small upsilon
U+1D74B	φ	φ	φ	φ	φ	φ	φ	\mbfitvarphi	mathematical bold italic small phi
U+1D74C	χ	χ	χ	χ	χ	χ	χ	\mbfitchi	mathematical bold italic small chi
U+1D74D	ψ	ψ	ψ	ψ	ψ	ψ	ψ	\mbfitpsi	mathematical bold italic small psi
U+1D74E	ω	ω	ω	ω	ω	ω	ω	\mbfitomega	mathematical bold italic small omega
U+1D74F	∂	∂	∂	∂	∂	∂	∂	\mbfitpartial	mathematical bold italic partial differential
U+1D750	ε	ε	ε	ε	ε	ε	ε	\mbfitepsilon	mathematical bold italic varepsilon symbol
U+1D751	ϑ	ϑ	ϑ	ϑ	ϑ	ϑ	ϑ	\mbfitvartheta	mathematical bold italic theta symbol
U+1D752	ϰ	ϰ	ϰ	ϰ	ϰ	ϰ	ϰ	\mbfitvarkappa	mathematical bold italic kappa symbol
U+1D753	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	\mbfitphi	mathematical bold italic phi symbol
U+1D754	ϱ	ϱ	ϱ	ϱ	ϱ	ϱ	ϱ	\mbfitvarrho	mathematical bold italic rho symbol
U+1D755	ϖ	ϖ	ϖ	ϖ	ϖ	ϖ	ϖ	\mbfitvarpi	mathematical bold italic pi symbol

15.2.9 Bold script, Latin, uppercase

USV	M	S	E	X	P	L	G	Macro	Description
U+1D4D0	𝒜	𝒜	𝒜	𝒜	𝒜	𝒜	𝒜	\mbfscrA	mathematical bold script capital a
U+1D4D1	ℬ	ℬ	ℬ	ℬ	ℬ	ℬ	ℬ	\mbfscrB	mathematical bold script capital b
U+1D4D2	𝒞	𝒞	𝒞	𝒞	𝒞	𝒞	𝒞	\mbfscrC	mathematical bold script capital c
U+1D4D3	𝒟	𝒟	𝒟	𝒟	𝒟	𝒟	𝒟	\mbfscrD	mathematical bold script capital d
U+1D4D4	ℰ	ℰ	ℰ	ℰ	ℰ	ℰ	ℰ	\mbfscrE	mathematical bold script capital e
U+1D4D5	ℱ	ℱ	ℱ	ℱ	ℱ	ℱ	ℱ	\mbfscrF	mathematical bold script capital f

USV	M	S	E	X	P	L	G	Macro	Description
U+1D4D6	𝒢	𝒢	𝒢	𝒢	𝒢	𝒢	𝒢	\mbfscrG	mathematical bold script capital g
U+1D4D7	ℋ	ℋ	ℋ	ℋ	ℋ	ℋ	ℋ	\mbfscrH	mathematical bold script capital h
U+1D4D8	ℐ	ℐ	ℐ	ℐ	ℐ	ℐ	ℐ	\mbfscrI	mathematical bold script capital i
U+1D4D9	𝒥	𝒥	𝒥	𝒥	𝒥	𝒥	𝒥	\mbfscrJ	mathematical bold script capital j
U+1D4DA	𝒦	𝒦	𝒦	𝒦	𝒦	𝒦	𝒦	\mbfscrK	mathematical bold script capital k
U+1D4DB	ℒ	ℒ	ℒ	ℒ	ℒ	ℒ	ℒ	\mbfscrL	mathematical bold script capital l
U+1D4DC	ℳ	ℳ	ℳ	ℳ	ℳ	ℳ	ℳ	\mbfscrM	mathematical bold script capital m
U+1D4DD	𝒩	𝒩	𝒩	𝒩	𝒩	𝒩	𝒩	\mbfscrN	mathematical bold script capital n
U+1D4DE	𝒪	𝒪	𝒪	𝒪	𝒪	𝒪	𝒪	\mbfscrO	mathematical bold script capital o
U+1D4DF	𝒫	𝒫	𝒫	𝒫	𝒫	𝒫	𝒫	\mbfscrP	mathematical bold script capital p
U+1D4E0	𝒬	𝒬	𝒬	𝒬	𝒬	𝒬	𝒬	\mbfscrQ	mathematical bold script capital q
U+1D4E1	ℛ	ℛ	ℛ	ℛ	ℛ	ℛ	ℛ	\mbfscrR	mathematical bold script capital r
U+1D4E2	𝒮	𝒮	𝒮	𝒮	𝒮	𝒮	𝒮	\mbfscrS	mathematical bold script capital s
U+1D4E3	𝒯	𝒯	𝒯	𝒯	𝒯	𝒯	𝒯	\mbfscrT	mathematical bold script capital t
U+1D4E4	𝒰	𝒰	𝒰	𝒰	𝒰	𝒰	𝒰	\mbfscrU	mathematical bold script capital u
U+1D4E5	𝒱	𝒱	𝒱	𝒱	𝒱	𝒱	𝒱	\mbfscrV	mathematical bold script capital v
U+1D4E6	𝒲	𝒲	𝒲	𝒲	𝒲	𝒲	𝒲	\mbfscrW	mathematical bold script capital w
U+1D4E7	𝒳	𝒳	𝒳	𝒳	𝒳	𝒳	𝒳	\mbfscrX	mathematical bold script capital x
U+1D4E8	𝒴	𝒴	𝒴	𝒴	𝒴	𝒴	𝒴	\mbfscrY	mathematical bold script capital y
U+1D4E9	𝒵	𝒵	𝒵	𝒵	𝒵	𝒵	𝒵	\mbfscrZ	mathematical bold script capital z

15.2.10 Bold script, Latin, lowercase

USV	M	S	E	X	P	L	G	Macro	Description
U+1D4EA		𝒶			𝒶	𝒶	𝒶	\mbfscra	mathematical bold script small a
U+1D4EB		𝒷			𝒷	𝒷	𝒷	\mbfscrb	mathematical bold script small b

USV	M	S	E	X	P	L	G	Macro	Description
U+1D4EC		*c*			*c*	*c*	*c*	\mbfscrc	mathematical bold script small c
U+1D4ED		*d*			*d*	*d*	*d*	\mbfscrd	mathematical bold script small d
U+1D4EE		*e*			*e*	*e*	*e*	\mbfscre	mathematical bold script small e
U+1D4EF		*f*			*f*	*f*	*f*	\mbfscrf	mathematical bold script small f
U+1D4F0		*g*			*g*	*g*	*g*	\mbfscrg	mathematical bold script small g
U+1D4F1		*h*			*h*	*h*	*h*	\mbfscrh	mathematical bold script small h
U+1D4F2		*i*			*i*	*i*	*i*	\mbfscri	mathematical bold script small i
U+1D4F3		*j*			*j*	*j*	*j*	\mbfscrj	mathematical bold script small j
U+1D4F4		*k*			*k*	*k*	*k*	\mbfscrk	mathematical bold script small k
U+1D4F5		*l*			*l*	*l*	*l*	\mbfscrl	mathematical bold script small l
U+1D4F6		*m*			*m*	*m*	*m*	\mbfscrm	mathematical bold script small m
U+1D4F7		*n*			*n*	*n*	*n*	\mbfscrn	mathematical bold script small n
U+1D4F8		*o*			*o*	*o*	*o*	\mbfscro	mathematical bold script small o
U+1D4F9		*p*			*p*	*p*	*p*	\mbfscrp	mathematical bold script small p
U+1D4FA		*q*			*q*	*q*	*q*	\mbfscrq	mathematical bold script small q
U+1D4FB		*r*			*r*	*r*	*r*	\mbfscrr	mathematical bold script small r
U+1D4FC		*s*			*s*	*s*	*s*	\mbfscrs	mathematical bold script small s
U+1D4FD		*t*			*t*	*t*	*t*	\mbfscrt	mathematical bold script small t
U+1D4FE		*u*			*u*	*u*	*u*	\mbfscru	mathematical bold script small u
U+1D4FF		*v*			*v*	*v*	*v*	\mbfscrv	mathematical bold script small v
U+1D500		*w*			*w*	*w*	*w*	\mbfscrw	mathematical bold script small w
U+1D501		*x*			*x*	*x*	*x*	\mbfscrx	mathematical bold script small x
U+1D502		*y*			*y*	*y*	*y*	\mbfscry	mathematical bold script small y
U+1D503		*z*			*z*	*z*	*z*	\mbfscrz	mathematical bold script small z

15.2.11 Bold fraktur, Latin, uppercase

USV	M	S	E	X	P	L	G	Macro	Description
U+1D56C	𝔄	𝔄	𝔄	𝔄	𝔄	𝔄	𝔄	\mbffrakA	mathematical bold fraktur capital a
U+1D56D	𝔅	𝔅	𝔅	𝔅	𝔅	𝔅	𝔅	\mbffrakB	mathematical bold fraktur capital b
U+1D56E	ℭ	ℭ	ℭ	ℭ	ℭ	ℭ	ℭ	\mbffrakC	mathematical bold fraktur capital c
U+1D56F	𝔇	𝔇	𝔇	𝔇	𝔇	𝔇	𝔇	\mbffrakD	mathematical bold fraktur capital d
U+1D570	𝔈	𝔈	𝔈	𝔈	𝔈	𝔈	𝔈	\mbffrakE	mathematical bold fraktur capital e
U+1D571	𝔉	𝔉	𝔉	𝔉	𝔉	𝔉	𝔉	\mbffrakF	mathematical bold fraktur capital f
U+1D572	𝔊	𝔊	𝔊	𝔊	𝔊	𝔊	𝔊	\mbffrakG	mathematical bold fraktur capital g
U+1D573	𝔥	𝔥	𝔥	𝔥	𝔥	𝔥	𝔥	\mbffrakH	mathematical bold fraktur capital h
U+1D574	𝔍	𝔍	𝔍	𝔍	𝔍	𝔍	𝔍	\mbffrakI	mathematical bold fraktur capital i
U+1D575	𝔍	𝔍	𝔍	𝔍	𝔍	𝔍	𝔍	\mbffrakJ	mathematical bold fraktur capital j
U+1D576	𝔎	𝔎	𝔎	𝔎	𝔎	𝔎	𝔎	\mbffrakK	mathematical bold fraktur capital k
U+1D577	𝔏	𝔏	𝔏	𝔏	𝔏	𝔏	𝔏	\mbffrakL	mathematical bold fraktur capital l
U+1D578	𝔐	𝔐	𝔐	𝔐	𝔐	𝔐	𝔐	\mbffrakM	mathematical bold fraktur capital m
U+1D579	𝔑	𝔑	𝔑	𝔑	𝔑	𝔑	𝔑	\mbffrakN	mathematical bold fraktur capital n
U+1D57A	𝔒	𝔒	𝔒	𝔒	𝔒	𝔒	𝔒	\mbffrakO	mathematical bold fraktur capital o
U+1D57B	𝔓	𝔓	𝔓	𝔓	𝔓	𝔓	𝔓	\mbffrakP	mathematical bold fraktur capital p
U+1D57C	𝔔	𝔔	𝔔	𝔔	𝔔	𝔔	𝔔	\mbffrakQ	mathematical bold fraktur capital q
U+1D57D	𝔕	𝔕	𝔕	𝔕	𝔕	𝔕	𝔕	\mbffrakR	mathematical bold fraktur capital r
U+1D57E	𝔖	𝔖	𝔖	𝔖	𝔖	𝔖	𝔖	\mbffrakS	mathematical bold fraktur capital s
U+1D57F	𝔗	𝔗	𝔗	𝔗	𝔗	𝔗	𝔗	\mbffrakT	mathematical bold fraktur capital t
U+1D580	𝔘	𝔘	𝔘	𝔘	𝔘	𝔘	𝔘	\mbffrakU	mathematical bold fraktur capital u
U+1D581	𝔙	𝔙	𝔙	𝔙	𝔙	𝔙	𝔙	\mbffrakV	mathematical bold fraktur capital v
U+1D582	𝔚	𝔚	𝔚	𝔚	𝔚	𝔚	𝔚	\mbffrakW	mathematical bold fraktur capital w
U+1D583	𝔛	𝔛	𝔛	𝔛	𝔛	𝔛	𝔛	\mbffrakX	mathematical bold fraktur capital x
U+1D584	𝔜	𝔜	𝔜	𝔜	𝔜	𝔜	𝔜	\mbffrakY	mathematical bold fraktur capital y
U+1D585	𝔷	𝔷	𝔷	𝔷	𝔷	𝔷	𝔷	\mbffrakZ	mathematical bold fraktur capital z

15.2.12 Bold fraktur, Latin, lowercase

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

USV	M	S	E	X	P	L	G	Macro	Description
U+1D59E	ŋ	ŋ	ŋ	ŋ	ŋ	ŋ	ŋ	\mbffraky	mathematical bold fraktur small y
U+1D59F	ʒ	ʒ	ʒ	ʒ	ʒ	ʒ	ʒ	\mbffrakz	mathematical bold fraktur small z

15.2.13 Bold sans serif, Latin, uppercase

USV	M	S	E	X	P	L	G	Macro	Description
U+1D5D4	A	A	A	A	A	A	A	\mbfsansA	mathematical sans-serif bold capital a
U+1D5D5	B	B	B	B	B	B	B	\mbfsansB	mathematical sans-serif bold capital b
U+1D5D6	C	C	C	C	C	C	C	\mbfsansC	mathematical sans-serif bold capital c
U+1D5D7	D	D	D	D	D	D	D	\mbfsansD	mathematical sans-serif bold capital d
U+1D5D8	E	E	E	E	E	E	E	\mbfsansE	mathematical sans-serif bold capital e
U+1D5D9	F	F	F	F	F	F	F	\mbfsansF	mathematical sans-serif bold capital f
U+1D5DA	G	G	G	G	G	G	G	\mbfsansG	mathematical sans-serif bold capital g
U+1D5DB	H	H	H	H	H	H	H	\mbfsansH	mathematical sans-serif bold capital h
U+1D5DC	I	I	I	I	I	I	I	\mbfsansI	mathematical sans-serif bold capital i
U+1D5DD	J	J	J	J	J	J	J	\mbfsansJ	mathematical sans-serif bold capital j
U+1D5DE	K	K	K	K	K	K	K	\mbfsansK	mathematical sans-serif bold capital k
U+1D5DF	L	L	L	L	L	L	L	\mbfsansL	mathematical sans-serif bold capital l
U+1D5E0	M	M	M	M	M	M	M	\mbfsansM	mathematical sans-serif bold capital m
U+1D5E1	N	N	N	N	N	N	N	\mbfsansN	mathematical sans-serif bold capital n
U+1D5E2	O	O	O	O	O	O	O	\mbfsansO	mathematical sans-serif bold capital o
U+1D5E3	P	P	P	P	P	P	P	\mbfsansP	mathematical sans-serif bold capital p
U+1D5E4	Q	Q	Q	Q	Q	Q	Q	\mbfsansQ	mathematical sans-serif bold capital q
U+1D5E5	R	R	R	R	R	R	R	\mbfsansR	mathematical sans-serif bold capital r
U+1D5E6	S	S	S	S	S	S	S	\mbfsansS	mathematical sans-serif bold capital s
U+1D5E7	T	T	T	T	T	T	T	\mbfsansT	mathematical sans-serif bold capital t

USV	M	S	E	X	P	L	G	Macro	Description
U+1D5E8	U	U	U	U	U	U	U	\mbfsansU	mathematical sans-serif bold capital u
U+1D5E9	V	V	V	V	V	V	V	\mbfsansV	mathematical sans-serif bold capital v
U+1D5EA	W	W	W	W	W	W	W	\mbfsansW	mathematical sans-serif bold capital w
U+1D5EB	X	X	X	X	X	X	X	\mbfsansX	mathematical sans-serif bold capital x
U+1D5EC	Y	Y	Y	Y	Y	Y	Y	\mbfsansY	mathematical sans-serif bold capital y
U+1D5ED	Z	Z	Z	Z	Z	Z	Z	\mbfsansZ	mathematical sans-serif bold capital z

15.2.14 Bold sans serif, Latin, lowercase

USV	M	S	E	X	P	L	G	Macro	Description
U+1D5EE	a	a	a	a	a	a	a	\mbfsansa	mathematical sans-serif bold small a
U+1D5EF	b	b	b	b	b	b	b	\mbfsansb	mathematical sans-serif bold small b
U+1D5F0	c	c	c	c	c	c	c	\mbfsansc	mathematical sans-serif bold small c
U+1D5F1	d	d	d	d	d	d	d	\mbfsansd	mathematical sans-serif bold small d
U+1D5F2	e	e	e	e	e	e	e	\mbfsanse	mathematical sans-serif bold small e
U+1D5F3	f	f	f	f	f	f	f	\mbfsansf	mathematical sans-serif bold small f
U+1D5F4	g	g	g	g	g	g	g	\mbfsansg	mathematical sans-serif bold small g
U+1D5F5	h	h	h	h	h	h	h	\mbfsansh	mathematical sans-serif bold small h
U+1D5F6	i	i	i	i	i	i	i	\mbfsansi	mathematical sans-serif bold small i
U+1D5F7	j	j	j	j	j	j	j	\mbfsansj	mathematical sans-serif bold small j
U+1D5F8	k	k	k	k	k	k	k	\mbfsansk	mathematical sans-serif bold small k
U+1D5F9	l	l	l	l	l	l	l	\mbfsansl	mathematical sans-serif bold small l
U+1D5FA	m	m	m	m	m	m	m	\mbfsansm	mathematical sans-serif bold small m
U+1D5FB	n	n	n	n	n	n	n	\mbfsansn	mathematical sans-serif bold small n
U+1D5FC	o	o	o	o	o	o	o	\mbfsanso	mathematical sans-serif bold small o
U+1D5FD	p	p	p	p	p	p	p	\mbfsansp	mathematical sans-serif bold small p

USV	M	S	E	X	P	L	G	Macro	Description
U+1D5FE	q	q	q	q	q	q	q	\mbfsansq	mathematical sans-serif bold small q
U+1D5FF	r	r	r	r	r	r	r	\mbfsansr	mathematical sans-serif bold small r
U+1D600	s	s	s	s	s	s	s	\mbfsanss	mathematical sans-serif bold small s
U+1D601	t	t	t	t	t	t	t	\mbfsanst	mathematical sans-serif bold small t
U+1D602	u	u	u	u	u	u	u	\mbfsansu	mathematical sans-serif bold small u
U+1D603	v	v	v	v	v	v	v	\mbfsansv	mathematical sans-serif bold small v
U+1D604	w	w	w	w	w	w	w	\mbfsansw	mathematical sans-serif bold small w
U+1D605	x	x	x	x	x	x	x	\mbfsansx	mathematical sans-serif bold small x
U+1D606	y	y	y	y	y	y	y	\mbfsansy	mathematical sans-serif bold small y
U+1D607	z	z	z	z	z	z	z	\mbfsansz	mathematical sans-serif bold small z

15.2.15 Bold italic sans serif, Latin, uppercase

USV	M	S	E	X	P	L	G	Macro	Description
U+1D63C	A	A	A	A	A	A	A	\mbfitsansA	mathematical sans-serif bold italic capital a
U+1D63D	B	B	B	B	B	B	B	\mbfitsansB	mathematical sans-serif bold italic capital b
U+1D63E	C	C	C	C	C	C	C	\mbfitsansC	mathematical sans-serif bold italic capital c
U+1D63F	D	D	D	D	D	D	D	\mbfitsansD	mathematical sans-serif bold italic capital d
U+1D640	E	E	E	E	E	E	E	\mbfitsansE	mathematical sans-serif bold italic capital e
U+1D641	F	F	F	F	F	F	F	\mbfitsansF	mathematical sans-serif bold italic capital f
U+1D642	G	G	G	G	G	G	G	\mbfitsansG	mathematical sans-serif bold italic capital g
U+1D643	H	H	H	H	H	H	H	\mbfitsansH	mathematical sans-serif bold italic capital h
U+1D644	I	I	I	I	I	I	I	\mbfitsansI	mathematical sans-serif bold italic capital i
U+1D645	J	J	J	J	J	J	J	\mbfitsansJ	mathematical sans-serif bold italic capital j
U+1D646	K	K	K	K	K	K	K	\mbfitsansK	mathematical sans-serif bold italic capital k
U+1D647	L	L	L	L	L	L	L	\mbfitsansL	mathematical sans-serif bold italic capital l

USV	M	S	E	X	P	L	G	Macro	Description
U+1D648	*M*	*M*	*M*	*M*	*M*	*M*	*M*	\mbfitsansM	mathematical sans-serif bold italic capital m
U+1D649	*N*	*N*	*N*	*N*	*N*	*N*	*N*	\mbfitsansN	mathematical sans-serif bold italic capital n
U+1D64A	*O*	*O*	*O*	*O*	*O*	*O*	*O*	\mbfitsansO	mathematical sans-serif bold italic capital o
U+1D64B	*P*	*P*	*P*	*P*	*P*	*P*	*P*	\mbfitsansP	mathematical sans-serif bold italic capital p
U+1D64C	*Q*	*Q*	*Q*	*Q*	*Q*	*Q*	*Q*	\mbfitsansQ	mathematical sans-serif bold italic capital q
U+1D64D	*R*	*R*	*R*	*R*	*R*	*R*	*R*	\mbfitsansR	mathematical sans-serif bold italic capital r
U+1D64E	*S*	*S*	*S*	*S*	*S*	*S*	*S*	\mbfitsansS	mathematical sans-serif bold italic capital s
U+1D64F	*T*	*T*	*T*	*T*	*T*	*T*	*T*	\mbfitsansT	mathematical sans-serif bold italic capital t
U+1D650	*U*	*U*	*U*	*U*	*U*	*U*	*U*	\mbfitsansU	mathematical sans-serif bold italic capital u
U+1D651	*V*	*V*	*V*	*V*	*V*	*V*	*V*	\mbfitsansV	mathematical sans-serif bold italic capital v
U+1D652	*W*	*W*	*W*	*W*	*W*	*W*	*W*	\mbfitsansW	mathematical sans-serif bold italic capital w
U+1D653	*X*	*X*	*X*	*X*	*X*	*X*	*X*	\mbfitsansX	mathematical sans-serif bold italic capital x
U+1D654	*Y*	*Y*	*Y*	*Y*	*Y*	*Y*	*Y*	\mbfitsansY	mathematical sans-serif bold italic capital y
U+1D655	*Z*	*Z*	*Z*	*Z*	*Z*	*Z*	*Z*	\mbfitsansZ	mathematical sans-serif bold italic capital z

15.2.16 Bold italic sans serif, Latin, lowercase

USV	M	S	E	X	P	L	G	Macro	Description
U+1D656	*a*	*a*	*a*	*a*	*a*	*a*	*a*	\mbfitsansa	mathematical sans-serif bold italic small a
U+1D657	*b*	*b*	*b*	*b*	*b*	*b*	*b*	\mbfitsansb	mathematical sans-serif bold italic small b
U+1D658	*c*	*c*	*c*	*c*	*c*	*c*	*c*	\mbfitsansc	mathematical sans-serif bold italic small c
U+1D659	*d*	*d*	*d*	*d*	*d*	*d*	*d*	\mbfitsansd	mathematical sans-serif bold italic small d
U+1D65A	*e*	*e*	*e*	*e*	*e*	*e*	*e*	\mbfitsanse	mathematical sans-serif bold italic small e
U+1D65B	*f*	*f*	*f*	*f*	*f*	*f*	*f*	\mbfitsansf	mathematical sans-serif bold italic small f
U+1D65C	*g*	*g*	*g*	*g*	*g*	*g*	*g*	\mbfitsansg	mathematical sans-serif bold italic small g
U+1D65D	*h*	*h*	*h*	*h*	*h*	*h*	*h*	\mbfitsansh	mathematical sans-serif bold italic small h

USV	M	S	E	X	P	L	G	Macro	Description
U+1D65E	*i*	*i*	*i*	*i*	*i*	*i*	*i*	\mbfitsansi	mathematical sans-serif bold italic small i
U+1D65F	*j*	*j*	*j*	*j*	*j*	*j*	*j*	\mbfitsansj	mathematical sans-serif bold italic small j
U+1D660	*k*	*k*	*k*	*k*	*k*	*k*	*k*	\mbfitsansk	mathematical sans-serif bold italic small k
U+1D661	*l*	*l*	*l*	*l*	*l*	*l*	*l*	\mbfitsansl	mathematical sans-serif bold italic small l
U+1D662	*m*	*m*	*m*	*m*	*m*	*m*	*m*	\mbfitsansm	mathematical sans-serif bold italic small m
U+1D663	*n*	*n*	*n*	*n*	*n*	*n*	*n*	\mbfitsansn	mathematical sans-serif bold italic small n
U+1D664	*o*	*o*	*o*	*o*	*o*	*o*	*o*	\mbfitsanso	mathematical sans-serif bold italic small o
U+1D665	*p*	*p*	*p*	*p*	*p*	*p*	*p*	\mbfitsansp	mathematical sans-serif bold italic small p
U+1D666	*q*	*q*	*q*	*q*	*q*	*q*	*q*	\mbfitsansq	mathematical sans-serif bold italic small q
U+1D667	*r*	*r*	*r*	*r*	*r*	*r*	*r*	\mbfitsansr	mathematical sans-serif bold italic small r
U+1D668	*s*	*s*	*s*	*s*	*s*	*s*	*s*	\mbfitsanss	mathematical sans-serif bold italic small s
U+1D669	*t*	*t*	*t*	*t*	*t*	*t*	*t*	\mbfitsanst	mathematical sans-serif bold italic small t
U+1D66A	*u*	*u*	*u*	*u*	*u*	*u*	*u*	\mbfitsansu	mathematical sans-serif bold italic small u
U+1D66B	*v*	*v*	*v*	*v*	*v*	*v*	*v*	\mbfitsansv	mathematical sans-serif bold italic small v
U+1D66C	*w*	*w*	*w*	*w*	*w*	*w*	*w*	\mbfitsansw	mathematical sans-serif bold italic small w
U+1D66D	*x*	*x*	*x*	*x*	*x*	*x*	*x*	\mbfitsansx	mathematical sans-serif bold italic small x
U+1D66E	*y*	*y*	*y*	*y*	*y*	*y*	*y*	\mbfitsansy	mathematical sans-serif bold italic small y
U+1D66F	*z*	*z*	*z*	*z*	*z*	*z*	*z*	\mbfitsansz	mathematical sans-serif bold italic small z

15.2.17 Bold sans serif Greek, uppercase

USV	M	S	E	X	P	L	G	Macro	Description
U+1D756	**A**	**A**	**A**	**A**	**A**	**A**	**A**	\mbfsansAlpha	mathematical sans-serif bold capital alpha
U+1D757	**B**	**B**	**B**	**B**	**B**	**B**	**B**	\mbfsansBeta	mathematical sans-serif bold capital beta
U+1D758	**Γ**	**Γ**	**Γ**	**Γ**	**Γ**	**Γ**	**Γ**	\mbfsansGamma	mathematical sans-serif bold capital gamma
U+1D759	**Δ**	**Δ**	**Δ**	**Δ**	**Δ**	**Δ**	**Δ**	\mbfsansDelta	mathematical sans-serif bold capital delta

USV	M	S	E	X	P	L	G	Macro	Description
U+1D75A	Ε	Ε	Ε	Ε	Ε	Ε	Ε	\mbfsansEpsilon	mathematical sans-serif bold capital epsilon
U+1D75B	Ζ	Ζ	Ζ	Ζ	Ζ	Ζ	Ζ	\mbfsansZeta	mathematical sans-serif bold capital zeta
U+1D75C	Η	Η	Η	Η	Η	Η	Η	\mbfsansEta	mathematical sans-serif bold capital eta
U+1D75D	Θ	Θ	Θ	Θ	Θ	Θ	Θ	\mbfsansTheta	mathematical sans-serif bold capital theta
U+1D75E	Ι	Ι	Ι	Ι	Ι	Ι	Ι	\mbfsansIota	mathematical sans-serif bold capital iota
U+1D75F	Κ	Κ	Κ	Κ	Κ	Κ	Κ	\mbfsansKappa	mathematical sans-serif bold capital kappa
U+1D760	Λ	Λ	Λ	Λ	Λ	Λ	Λ	\mbfsansLambda	mathematical sans-serif bold capital lambda
U+1D761	Μ	Μ	Μ	Μ	Μ	Μ	Μ	\mbfsansMu	mathematical sans-serif bold capital mu
U+1D762	Ν	Ν	Ν	Ν	Ν	Ν	Ν	\mbfsansNu	mathematical sans-serif bold capital nu
U+1D763	Ξ	Ξ	Ξ	Ξ	Ξ	Ξ	Ξ	\mbfsansXi	mathematical sans-serif bold capital xi
U+1D764	Ο	Ο	Ο	Ο	Ο	Ο	Ο	\mbfsansOmicron	mathematical sans-serif bold capital omicron
U+1D765	Π	Π	Π	Π	Π	Π	Π	\mbfsansPi	mathematical sans-serif bold capital pi
U+1D766	Ρ	Ρ	Ρ	Ρ	Ρ	Ρ	Ρ	\mbfsansRho	mathematical sans-serif bold capital rho
U+1D767	ϴ	ϴ	ϴ	ϴ	ϴ	ϴ	ϴ	\mbfsansvarTheta	mathematical sans-serif bold capital theta symbol
U+1D768	Σ	Σ	Σ	Σ	Σ	Σ	Σ	\mbfsansSigma	mathematical sans-serif bold capital sigma
U+1D769	Τ	Τ	Τ	Τ	Τ	Τ	Τ	\mbfsansTau	mathematical sans-serif bold capital tau
U+1D76A	Υ	Υ	Υ	Υ	Υ	Υ	Υ	\mbfsansUpsilon	mathematical sans-serif bold capital upsilon
U+1D76B	Φ	Φ	Φ	Φ	Φ	Φ	Φ	\mbfsansPhi	mathematical sans-serif bold capital phi
U+1D76C	Χ	Χ	Χ	Χ	Χ	Χ	Χ	\mbfsansChi	mathematical sans-serif bold capital chi
U+1D76D	Ψ	Ψ	Ψ	Ψ	Ψ	Ψ	Ψ	\mbfsansPsi	mathematical sans-serif bold capital psi
U+1D76E	Ω	Ω	Ω	Ω	Ω	Ω	Ω	\mbfsansOmega	mathematical sans-serif bold capital omega

15.2.18 Bold sans serif Greek, lowercase

USV	M	S	E	X	P	L	G	Macro	Description
U+1D770	α	α	α	α	α	α	α	\mbfsansalpha	mathematical sans-serif bold small alpha

USV	M	S	E	X	P	L	G	Macro	Description
U+1D771	β	β	β	β	β	β	β	\mbfsansbeta	mathematical sans-serif bold small beta
U+1D772	γ	γ	γ	γ	γ	γ	γ	\mbfsansgamma	mathematical sans-serif bold small gamma
U+1D773	δ	δ	δ	δ	δ	δ	δ	\mbfsansdelta	mathematical sans-serif bold small delta
U+1D774	ε	ε	ε	ε	ε	ε	ε	\mbfsansvarepsilon	mathematical sans-serif bold small varepsilon
U+1D775	ζ	ζ	ζ	ζ	ζ	ζ	ζ	\mbfsanszeta	mathematical sans-serif bold small zeta
U+1D776	η	η	η	η	η	η	η	\mbfsanseta	mathematical sans-serif bold small eta
U+1D777	θ	θ	θ	θ	θ	θ	θ	\mbfsanstheta	mathematical sans-serif bold small theta
U+1D778	ι	ι	ι	ι	ι	ι	ι	\mbfsansiota	mathematical sans-serif bold small iota
U+1D779	κ	κ	κ	κ	κ	κ	κ	\mbfsanskappa	mathematical sans-serif bold small kappa
U+1D77A	λ	λ	λ	λ	λ	λ	λ	\mbfsanslambda	mathematical sans-serif bold small lambda
U+1D77B	μ	μ	μ	μ	μ	μ	μ	\mbfsansmu	mathematical sans-serif bold small mu
U+1D77C	ν	ν	ν	ν	ν	ν	ν	\mbfsansnu	mathematical sans-serif bold small nu
U+1D77D	ξ	ξ	ξ	ξ	ξ	ξ	ξ	\mbfsansxi	mathematical sans-serif bold small xi
U+1D77E	ο	ο	ο	ο	ο	ο	ο	\mbfsansomicron	mathematical sans-serif bold small omicron
U+1D77F	π	π	π	π	π	π	π	\mbfsanspi	mathematical sans-serif bold small pi
U+1D780	ρ	ρ	ρ	ρ	ρ	ρ	ρ	\mbfsansrho	mathematical sans-serif bold small rho
U+1D781	ς	ς	ς	ς	ς	ς	ς	\mbfsansvarsigma	mathematical sans-serif bold small final sigma
U+1D782	σ	σ	σ	σ	σ	σ	σ	\mbfsanssigma	mathematical sans-serif bold small sigma
U+1D783	τ	τ	τ	τ	τ	τ	τ	\mbfsanstau	mathematical sans-serif bold small tau
U+1D784	υ	υ	υ	υ	υ	υ	υ	\mbfsansupsilon	mathematical sans-serif bold small upsilon
U+1D785	φ	φ	φ	φ	φ	φ	φ	\mbfsansvarphi	mathematical sans-serif bold small phi
U+1D786	χ	χ	χ	χ	χ	χ	χ	\mbfsanschi	mathematical sans-serif bold small chi
U+1D787	ψ	ψ	ψ	ψ	ψ	ψ	ψ	\mbfsanspsi	mathematical sans-serif bold small psi
U+1D788	ω	ω	ω	ω	ω	ω	ω	\mbfsansomega	mathematical sans-serif bold small omega
U+1D789	∂	∂	∂	∂	∂			\mbfsanspartial	mathematical sans-serif bold partial differential
U+1D78A	ϵ	ϵ	ϵ	ϵ	ϵ		ϵ	\mbfsansepsilon	mathematical sans-serif bold varepsilon symbol

USV	M	S	E	X	P	L	G	Macro	Description
U+1D78B	ϑ	ϑ	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	ϖ	ϖ	ϖ	ϖ	ϖ			\mbfsansvarpi	mathematical sans-serif bold pi symbol

15.2.19 Bold italic sans serif Greek, uppercase

USV	M	S	E	X	P	L	G	Macro	Description
U+1D790	*A*	*A*	*A*	*A*	*A*	*A*		\mbfitsansAlpha	mathematical sans-serif bold italic capital alpha
U+1D791	*B*	*B*	*B*	*B*	*B*	*B*		\mbfitsansBeta	mathematical sans-serif bold italic capital beta
U+1D792	*Γ*	*Γ*	*Γ*	*Γ*	*Γ*	*Γ*		\mbfitsansGamma	mathematical sans-serif bold italic capital gamma
U+1D793	*Δ*	*Δ*	*Δ*	*Δ*	*Δ*	*Δ*		\mbfitsansDelta	mathematical sans-serif bold italic capital delta
U+1D794	*E*	*E*	*E*	*E*	*E*	*E*		\mbfitsansEpsilon	mathematical sans-serif bold italic capital epsilon
U+1D795	*Z*	*Z*	*Z*	*Z*	*Z*	*Z*		\mbfitsansZeta	mathematical sans-serif bold italic capital zeta
U+1D796	*H*	*H*	*H*	*H*	*H*	*H*		\mbfitsansEta	mathematical sans-serif bold italic capital eta
U+1D797	*Θ*	*Θ*	*Θ*	*Θ*	*Θ*	*Θ*		\mbfitsansTheta	mathematical sans-serif bold italic capital theta
U+1D798	*I*	*I*	*I*	*I*	*I*	*I*		\mbfitsansIota	mathematical sans-serif bold italic capital iota
U+1D799	*K*	*K*	*K*	*K*	*K*	*K*		\mbfitsansKappa	mathematical sans-serif bold italic capital kappa
U+1D79A	*Λ*	*Λ*	*Λ*	*Λ*	*Λ*	*Λ*		\mbfitsansLambda	mathematical sans-serif bold italic capital lambda
U+1D79B	*M*	*M*	*M*	*M*	*M*	*M*		\mbfitsansMu	mathematical sans-serif bold italic capital mu
U+1D79C	*N*	*N*	*N*	*N*	*N*	*N*		\mbfitsansNu	mathematical sans-serif bold italic capital nu
U+1D79D	*Ξ*	*Ξ*	*Ξ*	*Ξ*	*Ξ*	*Ξ*		\mbfitsansXi	mathematical sans-serif bold italic capital xi
U+1D79E	*O*	*O*	*O*	*O*	*O*	*O*		\mbfitsansOmicron	mathematical sans-serif bold italic capital omicron
U+1D79F	*Π*	*Π*	*Π*	*Π*	*Π*	*Π*		\mbfitsansPi	mathematical sans-serif bold italic capital pi
U+1D7A0	*P*	*P*	*P*	*P*	*P*	*P*		\mbfitsansRho	mathematical sans-serif bold italic capital rho

USV	M	S	E	X	P	L	G	Macro	Description
U+1D7A1	Θ	Θ	Θ	Θ	Θ	Θ		\mbfitsansvarTheta	mathematical sans-serif bold italic capital theta symbol
U+1D7A2	Σ	Σ	Σ	Σ	Σ	Σ		\mbfitsansSigma	mathematical sans-serif bold italic capital sigma
U+1D7A3	T	T	T	T	T	T		\mbfitsansTau	mathematical sans-serif bold italic capital tau
U+1D7A4	ϒ	ϒ	ϒ	ϒ	ϒ	ϒ		\mbfitsansUpsilon	mathematical sans-serif bold italic capital upsilon
U+1D7A5	Φ	Φ	Φ	Φ	Φ	Φ		\mbfitsansPhi	mathematical sans-serif bold italic capital phi
U+1D7A6	X	X	X	X	X	X		\mbfitsansChi	mathematical sans-serif bold italic capital chi
U+1D7A7	Ψ	Ψ	Ψ	Ψ	Ψ	Ψ		\mbfitsansPsi	mathematical sans-serif bold italic capital psi
U+1D7A8	Ω	Ω	Ω	Ω	Ω	Ω		\mbfitsansOmega	mathematical sans-serif bold italic capital omega

15.2.20 Bold italic sans serif Greek, lowercase

USV	M	S	E	X	P	L	G	Macro	Description
U+1D7AA	α	α	α	α	α	α		\mbfitsansalpha	mathematical sans-serif bold italic small alpha
U+1D7AB	β	β	β	β	β	β		\mbfitsansbeta	mathematical sans-serif bold italic small beta
U+1D7AC	γ	γ	γ	γ	γ	γ		\mbfitsansgamma	mathematical sans-serif bold italic small gamma
U+1D7AD	δ	δ	δ	δ	δ	δ		\mbfitsansdelta	mathematical sans-serif bold italic small delta
U+1D7AE	ε	ε	ε	ε	ε	ε		\mbfitsansvarepsilon	mathematical sans-serif bold italic small varepsilon
U+1D7AF	ζ	ζ	ζ	ζ	ζ	ζ		\mbfitsanszeta	mathematical sans-serif bold italic small zeta
U+1D7B0	η	η	η	η	η	η		\mbfitsanseta	mathematical sans-serif bold italic small eta
U+1D7B1	θ	θ	θ	θ	θ	θ		\mbfitsanstheta	mathematical sans-serif bold italic small theta
U+1D7B2	ι	ι	ι	ι	ι	ι		\mbfitsansiota	mathematical sans-serif bold italic small iota
U+1D7B3	κ	κ	κ	κ	κ	κ		\mbfitsanskappa	mathematical sans-serif bold italic small kappa
U+1D7B4	λ	λ	λ	λ	λ	λ		\mbfitsanslambda	mathematical sans-serif bold italic small lambda
U+1D7B5	μ	μ	μ	μ	μ	μ		\mbfitsansmu	mathematical sans-serif bold italic small mu
U+1D7B6	ν	ν	ν	ν	ν	ν		\mbfitsansnu	mathematical sans-serif bold italic small nu
U+1D7B7	ξ	ξ	ξ	ξ	ξ	ξ		\mbfitsansxi	mathematical sans-serif bold italic small xi

USV	M	S	E	X	P	L	G	Macro	Description
U+1D7B8	*o*	*o*	*o*	*o*	*o*	*o*		\mbfitsansomicron	mathematical sans-serif bold italic small omicron
U+1D7B9	*π*	*π*	*π*	*π*	*π*	*π*		\mbfitsanspi	mathematical sans-serif bold italic small pi
U+1D7BA	*ρ*	*ρ*	*ρ*	*ρ*	*ρ*	*ρ*		\mbfitsansrho	mathematical sans-serif bold italic small rho
U+1D7BB	*ς*	*ς*	*ς*	*ς*	*ς*	*ς*		\mbfitsansvarsigma	mathematical sans-serif bold italic small final sigma
U+1D7BC	*σ*	*σ*	*σ*	*σ*	*σ*	*σ*		\mbfitsanssigma	mathematical sans-serif bold italic small sigma
U+1D7BD	*τ*	*τ*	*τ*	*τ*	*τ*	*τ*		\mbfitsanstau	mathematical sans-serif bold italic small tau
U+1D7BE	*υ*	*υ*	*υ*	*υ*	*υ*	*υ*		\mbfitsansupsilon	mathematical sans-serif bold italic small upsilon
U+1D7BF	*φ*	*φ*	*φ*	*φ*	*φ*	*φ*		\mbfitsansvarphi	mathematical sans-serif bold italic small phi
U+1D7C0	*χ*	*χ*	*χ*	*χ*	*χ*	*χ*		\mbfitsanschi	mathematical sans-serif bold italic small chi
U+1D7C1	*ψ*	*ψ*	*ψ*	*ψ*	*ψ*	*ψ*		\mbfitsanspsi	mathematical sans-serif bold italic small psi
U+1D7C2	*ω*	*ω*	*ω*	*ω*	*ω*	*ω*		\mbfitsansomega	mathematical sans-serif bold italic small omega
U+1D7C3	*∂*	*∂*	*∂*	*∂*	*∂*			\mbfitsanspartial	mathematical sans-serif bold italic partial differential
U+1D7C4	*ϵ*	*ϵ*	*ϵ*	*ϵ*	*ϵ*			\mbfitsansepsilon	mathematical sans-serif bold italic varepsilon symbol
U+1D7C5	*ϑ*	*ϑ*	*ϑ*	*ϑ*	*ϑ*	*ϑ*		\mbfitsansvartheta	mathematical sans-serif bold italic theta symbol
U+1D7C6	*ϰ*	*ϰ*	*ϰ*	*ϰ*	*ϰ*			\mbfitsansvarkappa	mathematical sans-serif bold italic kappa symbol
U+1D7C7	*ϕ*	*ϕ*	*ϕ*	*ϕ*	*ϕ*			\mbfitsansphi	mathematical sans-serif bold italic phi symbol
U+1D7C8	*ϱ*	*ϱ*	*ϱ*	*ϱ*	*ϱ*			\mbfitsansvarrho	mathematical sans-serif bold italic rho symbol
U+1D7C9	*ϖ*	*ϖ*	*ϖ*	*ϖ*	*ϖ*			\mbfitsansvarpi	mathematical sans-serif bold italic pi symbol

15.3 Miscellaneous

USV	M	S	E	X	P	L	G	Macro	Description
U+000F0	ð	ð	ð	ð	ð	ð	ð	\matheth	eth
U+02010	-	-	-	-	-	-	-	\mathhyphen	hyphen
U+02102	ℂ	ℂ	ℂ	ℂ	ℂ	ℂ	ℂ	\BbbC	/bbb c, open face c
U+0210A		*g*	*g*	*g*	*g*	*g*	*g*	\mscrg	/scr g, script letter g
U+0210B	*H*	*H*	*H*	*H*	*H*	*H*	*H*	\mscrH	hamiltonian (script capital h)
U+0210C	ℌ	ℌ	ℌ	ℌ	ℌ	ℌ	ℌ	\mfrakH	/frak h, upper case h

USV	M	S	E	X	P	L	G	Macro	Description
U+0210D	ℍ	ℍ	ℍ	ℍ	ℍ	ℍ	ℍ	\BbbH	/bbb h, open face h
U+0210F	ℏ	ℏ	ℏ	ℏ	ℏ	ℏ	ℏ	\hslash[a]	/hslash - variant planck's over 2pi
U+02110	ℐ	ℐ	ℐ	ℐ	ℐ	ℐ	ℐ	\mscrI	/scr i, script letter i
U+02111	ℑ	ℑ	ℑ	ℑ	ℑ	ℑ	ℑ	\Im[p]	imaginary part
U+02112	ℒ	ℒ	ℒ	ℒ	ℒ	ℒ	ℒ	\mscrL	lagrangian (script capital l)
U+02113	ℓ	ℓ	ℓ	ℓ	ℓ	ℓ	ℓ	\ell[p]	cursive small l
U+02115	ℕ	ℕ	ℕ	ℕ	ℕ	ℕ	ℕ	\BbbN	/bbb n, open face n
U+02118	℘	℘	℘	℘	℘	℘	℘	\wp[p]	weierstrass p
U+02119	ℙ	ℙ	ℙ	ℙ	ℙ	ℙ	ℙ	\BbbP	/bbb p, open face p
U+0211A	ℚ	ℚ	ℚ	ℚ	ℚ	ℚ	ℚ	\BbbQ	/bbb q, open face q
U+0211B	ℛ	ℛ	ℛ	ℛ	ℛ	ℛ	ℛ	\mscrR	/scr r, script letter r
U+0211C	ℜ	ℜ	ℜ	ℜ	ℜ	ℜ	ℜ	\Re[p]	real part
U+0211D	ℝ	ℝ	ℝ	ℝ	ℝ	ℝ	ℝ	\BbbR	/bbb r, open face r
U+02124	ℤ	ℤ	ℤ	ℤ	ℤ	ℤ	ℤ	\BbbZ	/bbb z, open face z
U+02128	ℨ	ℨ	ℨ	ℨ	ℨ	ℨ	ℨ	\mfrakZ	/frak z, upper case z
U+02129		℩						\turnediota	turned iota
U+0212B	Å	Å	Å	Å	Å		Å	\Angstrom	angstrom capital a, ring
U+0212C	ℬ	ℬ	ℬ	ℬ	ℬ	ℬ	ℬ	\mscrB	bernoulli function (script capital b)
U+0212D	ℭ	ℭ	ℭ	ℭ	ℭ	ℭ	ℭ	\mfrakC	black-letter capital c
U+0212F		ℯ	ℯ	ℯ	ℯ	ℯ	ℯ	\mscre	/scr e, script letter e
U+02130	ℰ	ℰ	ℰ	ℰ	ℰ	ℰ	ℰ	\mscrE	/scr e, script letter e
U+02131	ℱ	ℱ	ℱ	ℱ	ℱ	ℱ	ℱ	\mscrF	/scr f, script letter f
U+02133	ℳ	ℳ	ℳ	ℳ	ℳ	ℳ	ℳ	\mscrM	physics m-matrix (script capital m)
U+02134		ℴ	ℴ	ℴ	ℴ	ℴ	ℴ	\mscro	order of (script small o)
U+02135	ℵ	ℵ	ℵ	ℵ	ℵ	ℵ	ℵ	\aleph[p]	aleph, hebrew
U+02136	ℶ	ℶ	ℶ	ℶ	ℶ	ℶ	ℶ	\beth[a]	beth, hebrew
U+02137	ℷ	ℷ	ℷ	ℷ	ℷ	ℷ	ℷ	\gimel[a]	gimel, hebrew
U+02138	ℸ	ℸ	ℸ	ℸ	ℸ	ℸ	ℸ	\daleth[a]	daleth, hebrew
U+0213D	ℽ	ℽ	ℽ		ℽ		ℽ	\Bbbgamma	double-struck small gamma
U+0213E	ℾ	ℾ	ℾ		ℾ		ℾ	\BbbGamma	double-struck capital gamma
U+0213F	ℿ	ℿ	ℿ		ℿ		ℿ	\BbbPi	double-struck capital pi
U+02202	∂	∂	∂	∂	∂	∂	∂	\partial[p]	partial differential
U+02207	∇	∇	∇	∇	∇	∇	∇	\nabla[p]	nabla, del, hamilton operator

USV	M	S	E	X	P	L	G	Macro	Description
U+1D6A4	ı	ı	ı	ı	ı	ı	ı	`\imath`[(p)]	mathematical italic small dotless i
U+1D6A5	ȷ	ȷ	ȷ	ȷ	ȷ	ȷ	ȷ	`\jmath`[(p)]	mathematical italic small dotless 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
U+1D7A9	∇	∇	∇	∇	∇	∇		`\mbfitsansnabla`	mathematical sans-serif bold italic nabla
U+1D7CA		F				F		`\mbfDigamma`	mathematical bold capital digamma
U+1D7CB		ϝ				ϝ		`\mbfdigamma`	mathematical bold small digamma