Symbols defined by unicode-math

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

L Latin Modern Math (1586)

X XITS Math (2435)

S STIX Two Math (2436)

P TeX Gyre Pagella Math (1639)

D DejaVu Math TeX Gyre (1641)

F Fira Math (1053)

N NCM Math (2431)

H GFSNeohellenicMath (1657)

E ErewhonMath (1665)

C XCharterMath (1653)

R ConcreteMath (1644)

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

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

Contents

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[1]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	L X S P D F N H E C R	Macro	Description
U+00028	(((((((((	`\lparen`	left parenthesis
U+0005B	[[[[[[[[[	`\lbrack`	left square bracket
U+0007B	{ { { { { { { { {	`\lbrace`(p)	left curly bracket
U+0221A	√ √ √ √ √ √ √ √ √	`\sqrt`(p)	radical
U+0221B	∛ ∛ ∛ ∛ ∛ ∛ ∛	`\cuberoot`	cube root
U+0221C	∜ ∜ ∜ ∜ ∜ ∜ ∜	`\fourthroot`	fourth root
U+02308	⌈ ⌈ ⌈ ⌈ ⌈ ⌈ ⌈ ⌈ ⌈	`\lceil`(p)	left ceiling
U+0230A	⌊ ⌊ ⌊ ⌊ ⌊ ⌊ ⌊ ⌊ ⌊	`\lfloor`(p)	left floor
U+0231C	⌜ ⌜ ⌜ ⌜ ⌜ ⌜ ⌜ ⌜	`\ulcorner`	upper left corner
U+0231E	⌞ ⌞ ⌞ ⌞ ⌞ ⌞ ⌞ ⌞	`\llcorner`	lower left corner
U+023B0	⎰ ⎰ ⎰ ⎰ ⎰ ⎰	`\lmoustache`(p)	upper left or lower right curly bracket section
U+02772	❲ ❲ ❲	`\lbrbrak`	light left tortoise shell bracket ornament
U+027C5	⟅ ⟅ ⟅	`\lbag`	left s-shaped bag delimiter
U+027CC	⟌ ⟌ ⟌ ⌐	`\longdivision`	long division
U+027E6	⟦ ⟦ ⟦ ⟦ ⟦ ⟦ ⟦ ⟦	`\lBrack`	mathematical left white square bracket
U+027E8	⟨ ⟨ ⟨ ⟨ ⟨ ⟨ ⟨ ⟨ ⟨	`\langle`(p)	mathematical left angle bracket
U+027EA	⟪ ⟪ ⟪ ⟪ ⟪ ⟪ ⟪ ⟪ ⟪	`\lAngle`	mathematical left double angle bracket
U+027EC	⟬ ⟬ ⟬ ⟬	`\Lbrbrak`	mathematical left white tortoise shell bracket
U+027EE	⟮ ⟮ ⟮ ⟮ ⟮ ⟮ ⟮ ⟮ ⟮	`\lgroup`(p)	mathematical left flattened parenthesis
U+02983	⦃ ⦃ ⦃ ⦃	`\lBrace`	left white curly bracket
U+02985	⦅ ⦅ ⦅ ⦅	`\lParen`	left white parenthesis
U+02987	⦇ ⦇ ⦇ ⦇	`\llparenthesis`	z notation left image bracket
U+02989	⦉ ⦉ ⦉ ⦉	`\llangle`	z notation left binding bracket
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
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	L X S P D F N H E C R	Macro	Description
U+00021	! ! ! ! ! ! ! ! ! ! !	\mathexclam	exclamation mark
U+00029	)))))))))))	\rparen	right parenthesis
U+0005D	]]]]]]]]]]	\rbrack	right square bracket
U+0007D	} } } } } } } } } }	\rbrace(p)	right curly bracket
U+02309	⌉ ⌉ ⌉ ⌉ ⌉ ⌉ ⌉ ⌉ ⌉	\rceil(p)	right ceiling
U+0230B	⌋ ⌋ ⌋ ⌋ ⌋ ⌋ ⌋ ⌋ ⌋	\rfloor(p)	right floor
U+0231D	⌝ ⌝ ⌝ ⌝ ⌝ ⌝ ⌝ ⌝	\urcorner	upper right corner
U+0231F	⌟ ⌟ ⌟ ⌟ ⌟ ⌟ ⌟ ⌟	\lrcorner	lower right corner
U+023B1	⎱ ⎱ ⎱ ⎱ ⎱ ⎱	\rmoustache(p)	upper right or lower left curly bracket section
U+02773	❳ ❳ ❳	\rbrbrak	light right tortoise shell bracket ornament
U+027C6	⟆ ⟆ ⟆	\rbag	right s-shaped bag delimiter
U+027E7	⟧ ⟧ ⟧ ⟧ ⟧ ⟧ ⟧ ⟧	\rBrack	mathematical right white square bracket
U+027E9	⟩ ⟩ ⟩ ⟩ ⟩ ⟩ ⟩ ⟩ ⟩	\rangle(p)	mathematical right angle bracket
U+027EB	⟫ ⟫ ⟫ ⟫ ⟫ ⟫ ⟫ ⟫ ⟫	\rAngle	mathematical right double angle bracket
U+027ED	⟭ ⟭ ⟭ ⟭	\Rbrbrak	mathematical right white tortoise shell bracket
U+027EF	⟯ ⟯ ⟯ ⟯ ⟯ ⟯ ⟯ ⟯ ⟯	\rgroup(p)	mathematical right flattened parenthesis
U+02984	⦄ ⦄ ⦄ ⦄	\rBrace	right white curly bracket
U+02986	⦆ ⦆ ⦆ ⦆	\rParen	right white parenthesis
U+02988	⦈ ⦈ ⦈ ⦈	\rrparenthesis	z notation right image bracket
U+0298A	⦊ ⦊ ⦊ ⦊	\rrangle	z notation right binding bracket
U+0298C	⦌ ⦌ ⦌ ⦌	\rbrackubar	right square bracket with underbar
U+0298E	⦎ ⦎ ⦎ ⦎	\rbracklrtick	right square bracket with tick in bottom corner
U+02990	⦐ ⦐ ⦐ ⦐	\rbrackurtick	right square bracket with tick in top corner
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	L X S P D F N H E C R	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	L X S P D F N H E C R	Macro	Description
U+0002C	, , , ، ، , , , , ,	`\mathcomma`	comma
U+0003A	: : : : : : : : : :	`\mathcolon`	colon
U+0003B	; ; ; ; ; ; ; ; ; ;	`\mathsemicolon`	semicolon p:

5 'Over' symbols, `\mathover`

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
U+023B4	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	`\overbracket`	top square bracket
U+023DC	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	`\overparen`	top parenthesis (mathematical use)
U+023DE	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	`\overbrace`[(p)]	top curly bracket (mathematical use)

6 'Under' symbols, `\mathunder`

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
U+023B5	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	`\underbracket`	bottom square bracket
U+023DD	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	`\underparen`	bottom parenthesis (mathematical use)
U+023DF	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	$x+y$	`\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	L X S P D F N H E C R	Macro	Description
U+00300	x̀ x̀ x̀ x̀ x̀ x̀ x̀ x` x̀ x̀ x̀	\grave(P)	grave accent
U+00301	x́ x́ x́ x́ x́ x́ x́ x' x́ x́ x́	\acute(P)	acute accent
U+00302	x̂ x̂ x̂ x̂ x̂ x̂ x̂ x̂ x̂ x̂	\hat(P)	circumflex accent
U+00303	x̃ x̃ x̃ x̃ x̃ x̃ x̃ x̃ x̃ x̃	\tilde(P)	tilde
U+00304	x̄ x̄ x̄ x̄ x̄ x̄ x̄ x̄ x̄ x̄	\bar(P)	macron
U+00305	x̅ x̅ x̅ x̅ x̅ x̅ x̅ x̅ x̅ x̅	\overbar	overbar embellishment
U+00306	x̆ x̆ x̆ x̆ x̆ x̆ x̆ x̆ x̆ x̆	\breve(P)	breve
U+00307	ẋ ẋ ẋ ẋ ẋ ẋ ẋ ẋ ẋ ẋ	\dot(P)	dot above
U+00308	ẍ ẍ ẍ ẍ ẍ ẍ ẍ ẍ ẍ ẍ	\ddot(P)	dieresis
U+00309	x̉ x̉ x̉ x̉ x̉ x̉ x̉ x̉ x̉ x̉	\ovhook	combining hook above
U+0030A	x̊ x̊ x̊ x̊ x̊ x̊ x̊ x̊ x̊ x̊	\ocirc	ring
U+0030C	x̌ x̌ x̌ x̌ x̌ x̌ x̌ x̌ x̌ x̌	\check(P)	caron
U+00310	x̐ x̐ x̐	\candra	candrabindu (non-spacing)
U+00312	x̒ x̒ x̒ x̒ x̒	\oturnedcomma	combining turned comma above
U+00315	x̕ x̕ x̕	\ocommatopright	combining comma above right
U+0031A	x̚ x̚ x̚ x̚	\droang	left angle above (non-spacing)
U+020D0	x͐ x͐ x͐ x͐ x͐ x͐ x͐ x͐ x͐ x͐	\leftharpoonaccent	combining left harpoon above
U+020D1	x͑ x͑ x͑ x͑ x͑ x͑ x͑ x͑ x͑ x͑	\rightharpoonaccent	combining right harpoon above
U+020D2	x͒ x͒ x͒ x͒ x͒ x͒ x͒|x͒ x͒ x͒	\vertoverlay	combining long vertical line overlay
U+020D7	x⃗ x⃗ x⃗ x⃗ x⃗ x⃗ x⃗ x⃗ x⃗ x⃗	\vec(P)	combining right arrow above
U+020DB	x⃛ x⃛ x⃛ x⃛ x⃛ x⃛ x⃛ x⃛ x⃛ x⃛	\dddot	combining three dots above
U+020DC	x⃜ x⃜ x⃜ x⃜ x⃜ x⃜ x⃜ x⃜ x⃜ x⃜	\ddddot	combining four dots above
U+020E7	x⃧ x⃧ x⃧ x⃧	\annuity	combining annuity symbol
U+020E9	x⃩ x⃩ x⃩ x⃩ x⃩ x⃩ x⃩ x⃩ x⃩ x⃩	\widebridgeabove	combining wide bridge above
U+020F0	x⃰ x⃰ x⃰ x⃰ x⃰ x⃰ x⃰ x⃰ x⃰ x⃰	\asteraccent	combining asterisk above

8 Bottom accents, \mathbotaccent

USV	L X S P D F N H E C R	Macro	Description
U+020E8	x x x x x x x x x x	\threeunderdot	combining triple underdot

9 Big operators, \mathop

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

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
U+02140	∑	∑	∑	∑	∑	∑	∑		∑	∑	∑	\Bbbsum	double-struck n-ary summation
U+0220F	∏	∏	∏	∏	∏	∏	∏	∏	∏	∏	∏	\prod$^{(p)}$	product operator
U+02210	∐	∐	∐	∐	∐	∐	∐	∐	∐	∐	∐	\coprod$^{(p)}$	coproduct operator
U+02211	∑	∑	∑	∑	∑	∑	∑	∑	∑	∑	∑	\sum$^{(p)}$	summation operator
U+0222B	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	∫	\int$^{(p)}$	integral operator
U+0222C	∬	∬	∬	∬	∬	∬	∬	∬	∬	∬	∬	\iint	double integral operator
U+0222D	∭	∭	∭	∭	∭	∭	∭	∭	∭	∭	∭	\iiint	triple integral operator
U+0222E	∮	∮	∮	∮	∮	∮	∮	∮	∮	∮	∮	\oint$^{(p)}$	contour integral operator
U+0222F	∯	∯	∯	∯	∯	∯	∯	∯	∯	∯	∯	\oiint	double contour integral operator
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

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
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
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

9

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
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
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

10   Binary relations, `\mathbin`

USV	L	X	S	P	D	F	N	H	E	C	R	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
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)

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
U+022BD	⊽	⊽	⊽	⊽	⊽		⊽	⊽	⊽	⊽	⊽	\barvee	bar, vee (large vee)
U+022C4	◇	◇	◇	◇	◇		◇	◇	◇	◇	◇	\smwhtdiamond	white diamond
U+022C5	·	·	·	·	·	·	·	·	·	·	·	\cdot[p]	small middle dot
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
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

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
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
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

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
U+02A41	⊌	⊌					⊌	⊌				\uminus	union with minus sign
U+02A42	⊌	⊌					⊌	⊌				\barcup	union with overbar
U+02A43	⊓	⊓					⊓	⊓				\barcap	intersection with overbar
U+02A44	⊓	⊓					⊓	⊓				\capwedge	intersection with logical and
U+02A45	⊍	⊍					⊍	⊍				\cupvee	union with logical or
U+02A46	⊌	⊌					⊽	⊽				\cupovercap	union above intersection
U+02A47	⊌	⊌					⊽	⊽				\capovercup	intersection above union
U+02A48	⊌	⊌					⊽	⊽				\cupbarcap	union above bar above intersection
U+02A49	⊟	⊟					⊟	⊟				\capbarcup	intersection above bar above union
U+02A4A	⊎	⊎					⊎	⊎				\twocups	union beside and joined with union
U+02A4B	⋒	⋒					⋒	⋒				\twocaps	intersection beside and joined with intersection
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
U+02AFD	⫽	⫽					⫽	⫽				\sslash	double solidus operator
U+02AFE	⫾	⫾					⫾	⫾				\talloblong	white vertical bar

usv	L	X	S	P	D	F	N	H	E	C	R	Macro	Description

11 Ordinary symbols, `\mathord`

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
U+00023	#	#	#	#	#	#	#	#	#	#	#	`\mathoctothorpe`	number sign
U+00024	$	$	$	$	$	$	$	$	$	$	$	`\mathdollar`	dollar sign
U+00025	%	%	%	%	%	%	%	%	%	%	%	`\mathpercent`	percent sign
U+00026	&	&	&	&	&	&	&	&	&	&	&	`\mathampersand`	ampersand
U+00027	'	'	'	'	'	'	'	'	'	'		`\mathapostrophe`	apostrophe
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	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 superscripted
U+02033	″	″	″	″	″	″	″	″	″	″	″	`\dprime`	double prime or second, not superscripted
U+02034	‴	‴	‴	‴	‴	‴	‴	‴	‴	‴	‴	`\trprime`	triple prime (not superscripted)
U+02035	‵	‵	‵	‵	‵	‵	‵	‵	‵	‵	‵	`\backprime`[a]	reverse prime, not superscripted
U+02036	‶	‶	‶	‶	‶	‶	‶	‶	‶	‶	‶	`\backdprime`	double reverse prime, not superscripted
U+02037	‷	‷	‷	‷	‷	‷	‷	‷	‷	‷	‷	`\backtrprime`	triple reverse prime, not superscripted
U+02038		^	^			^						`\caretinsert`	caret (insertion mark)
U+0203C		‼	‼			‼	‼					`\Exclam`	double exclamation mark
U+02043		⁃	⁃			⁃						`\hyphenbullet`	rectangle, filled (hyphen bullet)
U+02047		⁇	⁇			⁇						`\Question`	double question mark
U+02057	⁗	⁗	⁗	⁗	⁗	⁗	⁗	⁗	⁗	⁗	⁗	`\qprime`	quadruple prime, not superscripted
U+020AC	€	€	€	€	€	€	€	€	€	€	€	`\euro`	euro sign
U+020DD	◯	◯	◯	◯	◯		◯	◯	◯	◯	◯	`\enclosecircle`	combining enclosing circle
U+020DE	□	□	□	□	□		□	□	□	□	□	`\enclosesquare`	combining enclosing square
U+020DF	◇	◇	◇	◇	◇		◇	◇	◇	◇	◇	`\enclosediamond`	combining enclosing diamond
U+020E4	△	△	△	△	△		△	△	△	△	△	`\enclosetriangle`	combining enclosing upward pointing triangle
U+02107	ℇ	ℇ	ℇ	ℇ	ℇ		ℇ	ℇ	ℇ	ℇ	ℇ	`\Eulerconst`	euler constant
U+0210E	ℎ	ℎ	ℎ	ℎ	ℎ	ℎ	ℎ	ℎ	ℎ	ℎ	ℎ	`\Planckconst`	planck constant
U+02127	℧	℧	℧	℧	℧	℧	℧	℧	℧	℧	℧	`\mho`	conductance

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
U+02132		ⅎ	ⅎ				ⅎ	ⅎ	ⅎ	ⅎ	ⅎ	\Finv[a]	turned capital f
U+0213C	ℼ	ℼ	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		ⅅ		ⅅ			\mitBbbD	double-struck italic capital d
U+02146	ⅆ	ⅆ	ⅆ	ⅆ	ⅆ		ⅆ		ⅆ			\mitBbbd	double-struck italic small d
U+02147	ⅇ	ⅇ	ⅇ	ⅇ	ⅇ		ⅇ		ⅇ			\mitBbbe	double-struck italic small e
U+02148	ⅈ	ⅈ	ⅈ	ⅈ	ⅈ		ⅈ		ⅈ			\mitBbbi	double-struck italic small i
U+02149	ⅉ	ⅉ	ⅉ	ⅉ	ⅉ		ⅉ		ⅉ			\mitBbbj	double-struck italic small j
U+0214A		ℊ	ℊ				ℊ					\PropertyLine	property line
U+021A8	↨	↨			↨	↨	↨					\updownarrowbar	up down arrow with base (perpendicular)
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
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

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
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
U+022EF	⋯	⋯	⋯	⋯	⋯	⋯	⋯	⋯	⋯	⋯	⋯	\unicodecdots	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
U+023A2	⎢	⎢	⎢	⎢	⎢	⎢	⎢	⎢	⎢	⎢	⎢	\lbrackextender	left square bracket extension

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
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)
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	space indicator
U+024C7												\circledR[a]	CIRCLED LATIN CAPITAL LETTER R

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USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
U+024C8												\circledS[a]	capital S in circle
U+024D4												\circlede	CIRCLED LATIN SMALL LETTER E
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
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

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
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
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		△	△				△					\triangledot	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	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+0263A	\smiley	happy smiley
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)
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

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
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
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

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USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
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
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
U+029DD		⧝	⧝				⧝	⧝				`\tieinfty`	tie over infinity
U+029DE		⧞	⧞				⧞	⧞				`\nvinfty`	infinity negated with vertical bar
U+029E0		⧠	⧠				⧠	⧠				`\laplac`	square with contoured outline

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
U+029E7		‡	‡				‡	‡				\thermod	thermodynamic
U+029E8		▼	▼				▼	▼				\downtriangleleftblack	down-pointing triangle with left half black
U+029E9		▼	▼				▼	▼				\downtrianglerightblack	down-pointing triangle with right half black
U+029EA		♦	♦				♦	♦				\blackdiamonddownarrow	black diamond with down arrow
U+029EC		♀	♀				♀	♀				\circledownarrow	white circle with down arrow
U+029ED		●	●				●	♀				\blackcircledownarrow	black circle with down arrow
U+029EE		⊟	⊟				⊟	⊟				\errbarsquare	error-barred white square
U+029EF		■	■				■	■				\errbarblacksquare	error-barred black square
U+029F0		◇	◇				◇	◇				\errbardiamond	error-barred white diamond
U+029F1		♦	♦				♦	♦				\errbarblackdiamond	error-barred black diamond
U+029F2		○	○				○	○				\errbarcircle	error-barred white circle
U+029F3		●	●				●	●				\errbarblackcircle	error-barred black circle
U+02AE1		⏊ₛ	⏊ₛ				⏊ₛ	⏊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
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

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
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	0	0	0	0	\mbfzero	mathematical bold digit 0
U+1D7CF	1	1	1	1	1	1	1	1	1	1	1	\mbfone	mathematical bold digit 1
U+1D7D0	2	2	2	2	2	2	2	2	2	2	2	\mbftwo	mathematical bold digit 2
U+1D7D1	3	3	3	3	3	3	3	3	3	3	3	\mbfthree	mathematical bold digit 3
U+1D7D2	4	4	4	4	4	4	4	4	4	4	4	\mbffour	mathematical bold digit 4
U+1D7D3	5	5	5	5	5	5	5	5	5	5	5	\mbffive	mathematical bold digit 5
U+1D7D4	6	6	6	6	6	6	6	6	6	6	6	\mbfsix	mathematical bold digit 6
U+1D7D5	7	7	7	7	7	7	7	7	7	7	7	\mbfseven	mathematical bold digit 7
U+1D7D6	8	8	8	8	8	8	8	8	8	8	8	\mbfeight	mathematical bold digit 8
U+1D7D7	9	9	9	9	9	9	9	9	9	9	9	\mbfnine	mathematical bold digit 9
U+1D7D8	0	0	0	0	0		0		0	0	0	\Bbbzero	mathematical double-struck digit 0
U+1D7D9	1	1	1	1	1		1		1	1	1	\Bbbone	mathematical double-struck digit 1
U+1D7DA	2	2	2	2	2		2		2	2	2	\Bbbtwo	mathematical double-struck digit 2
U+1D7DB	3	3	3	3	3		3		3	3	3	\Bbbthree	mathematical double-struck digit 3
U+1D7DC	4	4	4	4	4		4		4	4	4	\Bbbfour	mathematical double-struck digit 4
U+1D7DD	5	5	5	5	5		5		5	5	5	\Bbbfive	mathematical double-struck digit 5
U+1D7DE	6	6	6	6	6		6		6	6	6	\Bbbsix	mathematical double-struck digit 6
U+1D7DF	7	7	7	7	7		7		7	7	7	\Bbbseven	mathematical double-struck digit 7
U+1D7E0	8	8	8	8	8		8		8	8	8	\Bbbeight	mathematical double-struck digit 8
U+1D7E1	9	9	9	9	9		9		9	9	9	\Bbbnine	mathematical double-struck digit 9
U+1D7E2	0	0	0	0	0		0		0	0	0	\msanszero	mathematical sans-serif digit 0
U+1D7E3	1	1	1	1	1		1		1	1	1	\msansone	mathematical sans-serif digit 1
U+1D7E4	2	2	2	2	2		2		2	2	2	\msanstwo	mathematical sans-serif digit 2
U+1D7E5	3	3	3	3	3		3		3	3	3	\msansthree	mathematical sans-serif digit 3
U+1D7E6	4	4	4	4	4		4		4	4	4	\msansfour	mathematical sans-serif digit 4
U+1D7E7	5	5	5	5	5		5		5	5	5	\msansfive	mathematical sans-serif digit 5
U+1D7E8	6	6	6	6	6		6		6	6	6	\msanssix	mathematical sans-serif digit 6
U+1D7E9	7	7	7	7	7		7		7	7	7	\msansseven	mathematical sans-serif digit 7
U+1D7EA	8	8	8	8	8		8		8	8	8	\msanseight	mathematical sans-serif digit 8
U+1D7EB	9	9	9	9	9		9		9	9	9	\msansnine	mathematical sans-serif digit 9
U+1D7EC	0	0	0	0	0		0		0	0	0	\mbfsanszero	mathematical sans-serif bold digit 0
U+1D7ED	1	1	1	1	1		1		1	1	1	\mbfsansone	mathematical sans-serif bold digit 1
U+1D7EE	2	2	2	2	2		2		2	2	2	\mbfsanstwo	mathematical sans-serif bold digit 2
U+1D7EF	3	3	3	3	3		3		3	3	3	\mbfsansthree	mathematical sans-serif bold digit 3
U+1D7F0	4	4	4	4	4		4		4	4	4	\mbfsansfour	mathematical sans-serif bold digit 4
U+1D7F1	5	5	5	5	5		5		5	5	5	\mbfsansfive	mathematical sans-serif bold digit 5

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
U+1D7F2	6	6	6	6	6		6		6	6	6	\mbfsanssix	mathematical sans-serif bold digit 6
U+1D7F3	7	7	7	7	7		7		7	7	7	\mbfsansseven	mathematical sans-serif bold digit 7
U+1D7F4	8	8	8	8	8		8		8	8	8	\mbfsanseight	mathematical sans-serif bold digit 8
U+1D7F5	9	9	9	9	9		9		9	9	9	\mbfsansnine	mathematical sans-serif bold digit 9
U+1D7F6	0	0	0	0	0		0	0	0	0	0	\ttzero	mathematical monospace digit 0
U+1D7F7	1	1	1	1	1		1	1	1	1	1	\ttone	mathematical monospace digit 1
U+1D7F8	2	2	2	2	2		2	2	2	2	2	\tttwo	mathematical monospace digit 2
U+1D7F9	3	3	3	3	3		3	3	3	3	3	\ttthree	mathematical monospace digit 3
U+1D7FA	4	4	4	4	4		4	4	4	4	4	\ttfour	mathematical monospace digit 4
U+1D7FB	5	5	5	5	5		5	5	5	5	5	\ttfive	mathematical monospace digit 5
U+1D7FC	6	6	6	6	6		6	6	6	6	6	\ttsix	mathematical monospace digit 6
U+1D7FD	7	7	7	7	7		7	7	7	7	7	\ttseven	mathematical monospace digit 7
U+1D7FE	8	8	8	8	8		8	8	8	8	8	\tteight	mathematical monospace digit 8
U+1D7FF	9	9	9	9	9		9	9	9	9	9	\ttnine	mathematical monospace digit 9
U+1EEF0		محـ	محـ			محـ						\hwubsibs	ARABIC MATHEMATICAL OPERATOR MEEM WITH HAH WITH TATWEEL
U+1EEF1		حـد	حـد			حـد						\shqicbsw	ARABIC MATHEMATICAL OPERATOR HAH WITH DAL
U+2648		♈	♈									\aries	Aries
U+2649		♉	♉									\taurus	Taurus

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12   Relation symbols, \mathrel

USV	L	X	S	P	D	F	N	H	E	C	R	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
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

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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
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
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

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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)
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

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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
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
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

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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
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

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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
U+022F7		∈̄	∈̄				∈̄	∈̄				\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

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U+027F5												\longleftarrow[p]	long leftwards arrow
U+027F6												\longrightarrow[p]	long rightwards arrow
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
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

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
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
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

usv	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
U+02947	⤇	⤇				⤇	⤇					`\rightarrowx`	rightwards arrow through x
U+02948	⥈	⥈				⥈	⥈					`\leftrightarrowcircle`	left right arrow through small circle
U+02949	⥉	⥉				⥉	↥					`\twoheaduparrowcircle`	upwards two-headed arrow from small circle
U+0294A	⇌	⇌				⇌	⇌	⇌				`\leftrightharpoonupdown`	left barb up right barb down harpoon
U+0294B	⇋	⇋				⇋	⇋	⇋				`\leftrightharpoondownup`	left barb down right barb up harpoon
U+0294C	⥌	⥌				⥌	⥌	⥌				`\updownharpoonrightleft`	up barb right down barb left harpoon
U+0294D	⥍	⥍				⥍	⥍	⥍				`\updownharpoonleftright`	up barb left down barb right harpoon
U+0294E	⥎	⥎				⥎	⥎	⥎				`\leftrightharpoonupup`	left barb up right barb up harpoon
U+0294F	⥏	⥏				⥏	⥏	⥏				`\updownharpoonrightright`	up barb right down barb right harpoon
U+02950	⥐	⥐				⥐	⥐	⥐				`\leftrightharpoondowndown`	left barb down right barb down harpoon
U+02951	⥑	⥑				⥑	⥑	⥑				`\updownharpoonleftleft`	up barb left down barb left harpoon
U+02952	↼	↼				↼	↼					`\barleftharpoonup`	leftwards harpoon with barb up to bar
U+02953	⇀	⇀				⇀	⇀					`\rightharpoonupbar`	rightwards harpoon with barb up to bar
U+02954	↾	↾				↾	↾					`\barupharpoonright`	upwards harpoon with barb right to bar
U+02955	⇂	⇂				⇂	⇂					`\downharpoonrightbar`	downwards harpoon with barb right to bar
U+02956	↽	↽				↽	↽					`\barleftharpoondown`	leftwards harpoon with barb down to bar
U+02957	⇁	⇁				⇁	⇁					`\rightharpoondownbar`	rightwards harpoon with barb down to bar
U+02958	↿	↿				↿	↿					`\barupharpoonleft`	upwards harpoon with barb left to bar
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

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USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
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
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

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
U+029D0		⧐	⧐				⧐	⧐				\vbrtri	vertical bar beside right triangle
U+029D1		⧑	⧑				⧑	⧑				\lfbowtie	left black bowtie
U+029D2		⧒	⧒				⧒	⧒				\rfbowtie	right black bowtie
U+029D3		⧓	⧓				⧓	⧓				\fbowtie	black bowtie
U+029D4		⧔	⧔				⧔	⧔				\lftimes	left black times
U+029D5		⧕	⧕				⧕	⧕				\rftimes	right black times
U+029DF		⧟	⧟				⧟	⧟				\dualmap	double-ended multimap
U+029E1		⧡	⧡				⧡	⧡				\lrtriangleeq	increases as
U+029E3		⧣	⧣				⧣	⧣				\eparsl	equals sign and slanted parallel
U+029E4		⧤	⧤				⧤	⧤				\smeparsl	equals sign and slanted parallel with tilde above
U+029E5		⧥	⧥				⧥	⧥				\eqvparsl	identical to and slanted parallel
U+029E6		⧦	⧦				⧦	⧦				\gleichstark	gleich stark
U+029F4		⧴	⧴				⧴	⧴				\ruledelayed	rule-delayed
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
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

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
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
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

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
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
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
U+02ACE	⫎	⫎					⫎	⫎				\rsqhook	square right open box operator

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
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
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

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
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
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

13 Alphabetical symbols, \mathalpha

13.1 Normal weight

13.1.1 Upright Greek, uppercase

USV	L X S P D F N H E C R	Macro	Description
U+00391	A A A A A A A A A A	\mupAlpha	capital alpha, greek
U+00392	B B B B B B B B B B	\mupBeta	capital beta, greek
U+00393	Γ Γ Γ Γ Γ Γ Γ Γ Γ Γ	\mupGamma	capital gamma, greek
U+00394	Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ	\mupDelta	capital delta, greek
U+00395	E E E E E E E E E E	\mupEpsilon	capital epsilon, greek
U+00396	Z Z Z Z Z Z Z Z Z Z	\mupZeta	capital zeta, greek
U+00397	H H H H H H H H H H	\mupEta	capital eta, greek
U+00398	Θ Θ Θ Θ Θ Θ Θ Θ Θ Θ	\mupTheta	capital theta, greek
U+00399	I I I I I I I I I I	\mupIota	capital iota, greek
U+0039A	K K K K K K K K K K	\mupKappa	capital kappa, greek
U+0039B	Λ Λ Λ Λ Λ Λ Λ Λ Λ Λ	\mupLambda	capital lambda, greek
U+0039C	M M M M M M M M M M	\mupMu	capital mu, greek
U+0039D	N N N N N N N N N N	\mupNu	capital nu, greek
U+0039E	Ξ Ξ Ξ Ξ Ξ Ξ Ξ Ξ Ξ Ξ	\mupXi	capital xi, greek
U+0039F	O O O O O O O O O O	\mupOmicron	capital omicron, greek
U+003A0	Π Π Π Π Π Π Π Π Π Π	\mupPi	capital pi, greek
U+003A1	P P P P P P P P P P	\mupRho	capital rho, greek
U+003A3	Σ Σ Σ Σ Σ Σ Σ Σ Σ Σ	\mupSigma	capital sigma, greek
U+003A4	T T T T T T T T T T	\mupTau	capital tau, greek
U+003A5	Υ Υ Υ Υ Υ Υ Υ Υ Υ Υ	\mupUpsilon	capital upsilon, greek
U+003A6	Φ Φ Φ Φ Φ Φ Φ Φ Φ Φ	\mupPhi	capital phi, greek
U+003A7	X X X X X X X X X X	\mupChi	capital chi, greek
U+003A8	Ψ Ψ Ψ Ψ Ψ Ψ Ψ Ψ Ψ Ψ	\mupPsi	capital psi, greek
U+003A9	Ω Ω Ω Ω Ω Ω Ω Ω Ω Ω	\mupOmega	capital omega, greek

13.1.2 Upright Greek, lowercase

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

USV	L X S P D F N H E C R	Macro	Description
U+003BE	ξ ξ ξ ξ ξ ξ ξ ξ ξ ξ	\mupxi	small xi, greek
U+003BF	ο ο ο ο ο ο ο ο ο ο	\mupomicron	small omicron, greek
U+003C0	π π π π π π π π π π	\muppi	small pi, greek
U+003C1	ρ ρ ρ ρ ρ ρ ρ ρ ρ ρ	\muprho	small rho, greek
U+003C2	ς ς ς ς ς ς ς ς ς ς	\mupvarsigma	terminal sigma, greek
U+003C3	σ σ σ σ σ σ σ σ σ σ	\mupsigma	small sigma, greek
U+003C4	τ τ τ τ τ τ τ τ τ τ	\muptau	small tau, greek
U+003C5	υ υ υ υ υ υ υ υ υ υ	\mupupsilon	small upsilon, greek
U+003C6	φ φ φ φ φ φ φ φ φ φ	\mupvarphi	curly or open small phi, greek
U+003C7	χ χ χ χ χ χ χ χ χ χ	\mupchi	small chi, greek
U+003C8	ψ ψ ψ ψ ψ ψ ψ ψ ψ ψ	\muppsi	small psi, greek
U+003C9	ω ω ω ω ω ω ω ω ω ω	\mupomega	small omega, greek
U+003D1	ϑ ϑ ϑ ϑ ϑ ϑ ϑ ϑ ϑ ϑ	\mupvartheta	/vartheta - curly or open theta
U+003D5	ϕ ϕ ϕ ϕ ϕ ϕ ϕ ϕ ϕ ϕ	\mupphi	/straightphi - small phi, greek
U+003D6	ϖ ϖ ϖ ϖ ϖ ϖ ϖ ϖ ϖ ϖ	\mupvarpi	rounded small pi (pomega), greek
U+003DC	F F F F	\upDigamma	capital digamma
U+003DD	Ϝ ϝ ϝ ϝ ϝ	\updigamma	old greek small letter digamma
U+003F0	ϰ ϰ ϰ ϰ ϰ ϰ ϰ ϰ ϰ ϰ	\mupvarkappa	rounded small kappa, greek
U+003F1	ϱ ϱ ϱ ϱ ϱ ϱ ϱ ϱ ϱ ϱ	\mupvarrho	rounded small rho, greek
U+003F4	ϴ ϴ ϴ ϴ ϴ ϴ ϴ ϴ ϴ ϴ	\mupvarTheta	greek capital theta symbol
U+003F5	ϵ ϵ ϵ ϵ ϵ ϵ ϵ ϵ ϵ ϵ	\mupepsilon	greek lunate varepsilon symbol

13.1.3 Italic, Latin, uppercase

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

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

13.1.4 Italic, Latin, lowercase

USV	L X S P D F N H E C R	Macro	Description
U+1D44E	*a a a a a a a a a a*	\mita	mathematical italic small a
U+1D44F	*b b b b b b b b b b*	\mitb	mathematical italic small b
U+1D450	*c c c c c c c c c c*	\mitc	mathematical italic small c
U+1D451	*d d d d d d d d d d*	\mitd	mathematical italic small d
U+1D452	*e e e e e e e e e e*	\mite	mathematical italic small e
U+1D453	*f f f f f f f f f f*	\mitf	mathematical italic small f
U+1D454	*g g g g g g g g g g*	\mitg	mathematical italic small g
U+1D456	*i i i i i i i i i i*	\miti	mathematical italic small i
U+1D457	*j j j j j j j j j j*	\mitj	mathematical italic small j
U+1D458	*k k k k k k k k k k*	\mitk	mathematical italic small k
U+1D459	*l l l l l l l l l l*	\mitl	mathematical italic small l
U+1D45A	*m m m m m m m m m m*	\mitm	mathematical italic small m
U+1D45B	*n n n n n n n n n n*	\mitn	mathematical italic small n
U+1D45C	*o o o o o o o o o o*	\mito	mathematical italic small o
U+1D45D	*p p p p p p p p p p*	\mitp	mathematical italic small p
U+1D45E	*q q q q q q q q q q*	\mitq	mathematical italic small q
U+1D45F	*r r r r r r r r r r*	\mitr	mathematical italic small r
U+1D460	*s s s s s s s s s s*	\mits	mathematical italic small s
U+1D461	*t t t t t t t t t t*	\mitt	mathematical italic small t
U+1D462	*u u u u u u u u u u*	\mitu	mathematical italic small u
U+1D463	*v v v v v v v v v v*	\mitv	mathematical italic small v
U+1D464	*w w w w w w w w w w*	\mitw	mathematical italic small w
U+1D465	*x x x x x x x x x x*	\mitx	mathematical italic small x
U+1D466	*y y y y y y y y y y*	\mity	mathematical italic small y
U+1D467	*z z z z z z z z z z*	\mitz	mathematical italic small z

13.1.5 Italic Greek, uppercase

USV	L X S P D F N H E C R	Macro	Description
U+1D6E2	*A A A A A A A A A A*	\mitAlpha	mathematical italic capital alpha
U+1D6E3	*B B B B B B B B B B*	\mitBeta	mathematical italic capital beta
U+1D6E4	*Γ Γ Γ Γ Γ Γ Γ Γ Γ Γ*	\mitGamma	mathematical italic capital gamma
U+1D6E5	*Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ*	\mitDelta	mathematical italic capital delta
U+1D6E6	*E E E E E E E E E E*	\mitEpsilon	mathematical italic capital epsilon
U+1D6E7	*Z Z Z Z Z Z Z Z Z Z*	\mitZeta	mathematical italic capital zeta
U+1D6E8	*H H H H H H H H H H*	\mitEta	mathematical italic capital eta

USV	L X S P D F N H E C R	Macro	Description
U+1D6E9	Θ Θ Θ Θ Θ Θ Θ Θ Θ Θ	\mitTheta	mathematical italic capital theta
U+1D6EA	I I I I I I I I I I	\mitIota	mathematical italic capital iota
U+1D6EB	K K K K K K K K K K	\mitKappa	mathematical italic capital kappa
U+1D6EC	Λ Λ Λ Λ Λ Λ Λ Λ Λ Λ	\mitLambda	mathematical italic capital lambda
U+1D6ED	M M M M M M M M M M	\mitMu	mathematical italic capital mu
U+1D6EE	N N N N N N N N N N	\mitNu	mathematical italic capital nu
U+1D6EF	Ξ Ξ Ξ Ξ Ξ Ξ Ξ Ξ Ξ Ξ	\mitXi	mathematical italic capital xi
U+1D6F0	O O O O O O O O O O	\mitOmicron	mathematical italic capital omicron
U+1D6F1	Π Π Π Π Π Π Π Π Π Π	\mitPi	mathematical italic capital pi
U+1D6F2	P P P P P P P P P P	\mitRho	mathematical italic capital rho
U+1D6F3	Θ Θ Θ Θ Θ Θ Θ Θ Θ Θ	\mitvarTheta	mathematical italic capital theta symbol
U+1D6F4	Σ Σ Σ Σ Σ Σ Σ Σ Σ Σ	\mitSigma	mathematical italic capital sigma
U+1D6F5	T T T T T T T T T T	\mitTau	mathematical italic capital tau
U+1D6F6	Υ Υ Υ Υ Υ Υ Υ Υ Υ Υ	\mitUpsilon	mathematical italic capital upsilon
U+1D6F7	Φ Φ Φ Φ Φ Φ Φ Φ Φ Φ	\mitPhi	mathematical italic capital phi
U+1D6F8	X X X X X X X X X X	\mitChi	mathematical italic capital chi
U+1D6F9	Ψ Ψ Ψ Ψ Ψ Ψ Ψ Ψ Ψ Ψ	\mitPsi	mathematical italic capital psi
U+1D6FA	Ω Ω Ω Ω Ω Ω Ω Ω Ω Ω	\mitOmega	mathematical italic capital omega

13.1.6 Italic Greek, lowercase

USV	L X S P D F N H E C R	Macro	Description
U+1D6FC	α α α α α α α α α α	\mitalpha	mathematical italic small alpha
U+1D6FD	β β β β β β β β β β	\mitbeta	mathematical italic small beta
U+1D6FE	γ γ γ γ γ γ γ γ γ γ	\mitgamma	mathematical italic small gamma
U+1D6FF	δ δ δ δ δ δ δ δ δ δ	\mitdelta	mathematical italic small delta
U+1D700	ε ε ε ε ε ε ε ε ε ε	\mitvarepsilon	mathematical italic small varepsilon
U+1D701	ζ ζ ζ ζ ζ ζ ζ ζ ζ ζ	\mitzeta	mathematical italic small zeta
U+1D702	η η η η η η η η η η	\miteta	mathematical italic small eta
U+1D703	θ θ θ θ θ θ θ θ θ θ	\mittheta	mathematical italic small theta
U+1D704	ι ι ι ι ι ι ι ι ι ι	\mitiota	mathematical italic small iota
U+1D705	κ κ κ κ κ κ κ κ κ κ	\mitkappa	mathematical italic small kappa
U+1D706	λ λ λ λ λ λ λ λ λ λ	\mitlambda	mathematical italic small lambda
U+1D707	μ μ μ μ μ μ μ μ μ μ	\mitmu	mathematical italic small mu
U+1D708	ν ν ν ν ν ν ν ν ν ν	\mitnu	mathematical italic small nu
U+1D709	ξ ξ ξ ξ ξ ξ ξ ξ ξ ξ	\mitxi	mathematical italic small xi
U+1D70A	o o o o o o o o o o	\mitomicron	mathematical italic small omicron
U+1D70B	π π π π π π π π π π	\mitpi	mathematical italic small pi
U+1D70C	ρ ρ ρ ρ ρ ρ ρ ρ ρ ρ	\mitrho	mathematical italic small rho
U+1D70D	ς ς ς ς ς ς ς ς ς ς	\mitvarsigma	mathematical italic small final sigma
U+1D70E	σ σ σ σ σ σ σ σ σ σ	\mitsigma	mathematical italic small sigma
U+1D70F	τ τ τ τ τ τ τ τ τ τ	\mittau	mathematical italic small tau
U+1D710	υ υ υ υ υ υ υ υ υ υ	\mitupsilon	mathematical italic small upsilon
U+1D711	φ φ φ φ φ φ φ φ φ φ	\mitvarphi	mathematical italic small phi
U+1D712	χ χ χ χ χ χ χ χ χ χ	\mitchi	mathematical italic small chi
U+1D713	ψ ψ ψ ψ ψ ψ ψ ψ ψ ψ	\mitpsi	mathematical italic small psi
U+1D714	ω ω ω ω ω ω ω ω ω ω	\mitomega	mathematical italic small omega

USV	L X S P D F N H E C R	Macro	Description
U+1D715	∂ ∂ ∂ ∂ ∂ ∂ ∂ ∂ ∂ ∂	\mitpartial	mathematical italic partial differential
U+1D716	ϵ ϵ ϵ ϵ ϵ ϵ ϵ ϵ ϵ ϵ	\mitepsilon	mathematical italic varepsilon symbol
U+1D717	ϑ ϑ ϑ ϑ ϑ ϑ ϑ ϑ ϑ ϑ	\mitvartheta	mathematical italic theta symbol
U+1D718	ϰ ϰ ϰ ϰ ϰ ϰ ϰ ϰ ϰ ϰ	\mitvarkappa	mathematical italic kappa symbol
U+1D719	ϕ ϕ ϕ ϕ ϕ ϕ ϕ ϕ ϕ	\mitphi	mathematical italic phi symbol
U+1D71A	ϱ ϱ ϱ ϱ ϱ ϱ ϱ ϱ ϱ ϱ	\mitvarrho	mathematical italic rho symbol
U+1D71B	ϖ ϖ ϖ ϖ ϖ ϖ ϖ ϖ ϖ	\mitvarpi	mathematical italic pi symbol

13.1.7 Script, Latin, uppercase

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

13.1.8 Script, Latin, lowercase

USV	L X S P D F N H E C R	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

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
U+1D4C3	𝓃	𝓃	𝓃	𝓃		𝓃						\mscrn	mathematical script small n
U+1D4C5	𝓅	𝓅	𝓅	𝓅		𝓅						\mscrp	mathematical script small p
U+1D4C6	𝓆	𝓆	𝓆	𝓆		𝓆						\mscrq	mathematical script small q
U+1D4C7	𝓇	𝓇	𝓇	𝓇		𝓇						\mscrr	mathematical script small r
U+1D4C8	𝓈	𝓈	𝓈	𝓈		𝓈						\mscrs	mathematical script small s
U+1D4C9	𝓉	𝓉	𝓉	𝓉		𝓉						\mscrt	mathematical script small t
U+1D4CA	𝓊	𝓊	𝓊	𝓊		𝓊						\mscru	mathematical script small u
U+1D4CB	𝓋	𝓋	𝓋	𝓋		𝓋						\mscrv	mathematical script small v
U+1D4CC	𝓌	𝓌	𝓌	𝓌		𝓌						\mscrw	mathematical script small w
U+1D4CD	𝓍	𝓍	𝓍	𝓍		𝓍						\mscrx	mathematical script small x
U+1D4CE	𝓎	𝓎	𝓎	𝓎		𝓎						\mscry	mathematical script small y
U+1D4CF	𝓏	𝓏	𝓏	𝓏		𝓏						\mscrz	mathematical script small z

13.1.9 Fraktur, Latin, uppercase

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
U+1D504	𝔄	𝔄	𝔄	𝔄	𝔄	𝔄	𝔄	𝔄	𝔄	𝔄	𝔄	\mfrakA	mathematical fraktur capital a
U+1D505	𝔅	𝔅	𝔅	𝔅	𝔅	𝔅	𝔅	𝔅	𝔅	𝔅	𝔅	\mfrakB	mathematical fraktur capital b
U+1D507	𝔇	𝔇	𝔇	𝔇	𝔇	𝔇	𝔇	𝔇	𝔇	𝔇	𝔇	\mfrakD	mathematical fraktur capital d
U+1D508	𝔈	𝔈	𝔈	𝔈	𝔈	𝔈	𝔈	𝔈	𝔈	𝔈	𝔈	\mfrakE	mathematical fraktur capital e
U+1D509	𝔉	𝔉	𝔉	𝔉	𝔉	𝔉	𝔉	𝔉	𝔉	𝔉	𝔉	\mfrakF	mathematical fraktur capital f
U+1D50A	𝔊	𝔊	𝔊	𝔊	𝔊	𝔊	𝔊	𝔊	𝔊	𝔊	𝔊	\mfrakG	mathematical fraktur capital g
U+1D50D	𝔍	𝔍	𝔍	𝔍	𝔍	𝔍	𝔍	𝔍	𝔍	𝔍	𝔍	\mfrakJ	mathematical fraktur capital j
U+1D50E	𝔎	𝔎	𝔎	𝔎	𝔎	𝔎	𝔎	𝔎	𝔎	𝔎	𝔎	\mfrakK	mathematical fraktur capital k
U+1D50F	𝔏	𝔏	𝔏	𝔏	𝔏	𝔏	𝔏	𝔏	𝔏	𝔏	𝔏	\mfrakL	mathematical fraktur capital l
U+1D510	𝔐	𝔐	𝔐	𝔐	𝔐	𝔐	𝔐	𝔐	𝔐	𝔐	𝔐	\mfrakM	mathematical fraktur capital m
U+1D511	𝔑	𝔑	𝔑	𝔑	𝔑	𝔑	𝔑	𝔑	𝔑	𝔑	𝔑	\mfrakN	mathematical fraktur capital n
U+1D512	𝔒	𝔒	𝔒	𝔒	𝔒	𝔒	𝔒	𝔒	𝔒	𝔒	𝔒	\mfrakO	mathematical fraktur capital o
U+1D513	𝔓	𝔓	𝔓	𝔓	𝔓	𝔓	𝔓	𝔓	𝔓	𝔓	𝔓	\mfrakP	mathematical fraktur capital p
U+1D514	𝔔	𝔔	𝔔	𝔔	𝔔	𝔔	𝔔	𝔔	𝔔	𝔔	𝔔	\mfrakQ	mathematical fraktur capital q
U+1D516	𝔖	𝔖	𝔖	𝔖	𝔖	𝔖	𝔖	𝔖	𝔖	𝔖	𝔖	\mfrakS	mathematical fraktur capital s
U+1D517	𝔗	𝔗	𝔗	𝔗	𝔗	𝔗	𝔗	𝔗	𝔗	𝔗	𝔗	\mfrakT	mathematical fraktur capital t
U+1D518	𝔘	𝔘	𝔘	𝔘	𝔘	𝔘	𝔘	𝔘	𝔘	𝔘	𝔘	\mfrakU	mathematical fraktur capital u
U+1D519	𝔙	𝔙	𝔙	𝔙	𝔙	𝔙	𝔙	𝔙	𝔙	𝔙	𝔙	\mfrakV	mathematical fraktur capital v
U+1D51A	𝔚	𝔚	𝔚	𝔚	𝔚	𝔚	𝔚	𝔚	𝔚	𝔚	𝔚	\mfrakW	mathematical fraktur capital w
U+1D51B	𝔛	𝔛	𝔛	𝔛	𝔛	𝔛	𝔛	𝔛	𝔛	𝔛	𝔛	\mfrakX	mathematical fraktur capital x
U+1D51C	𝔜	𝔜	𝔜	𝔜	𝔜	𝔜	𝔜	𝔜	𝔜	𝔜	𝔜	\mfrakY	mathematical fraktur capital y

13.1.10 Fraktur, Latin, lowercase

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
U+1D51E	𝔞	𝔞	𝔞	𝔞	𝔞	𝔞		𝔞	𝔞	𝔞		\mfraka	mathematical fraktur small a
U+1D51F	𝔟	𝔟	𝔟	𝔟	𝔟	𝔟		𝔟	𝔟	𝔟		\mfrakb	mathematical fraktur small b
U+1D520	𝔠	𝔠	𝔠	𝔠	𝔠	𝔠		𝔠	𝔠	𝔠		\mfrakc	mathematical fraktur small c

usv	L X S P D F N H E C R	Macro	Description
U+1D521	ꭣ ꭣ ꭣ ꭣ ꭣ ꭣ ꭣ ꭣ ꭣ	\mfrakd	mathematical fraktur small d
U+1D522	ꭰ ꭰ ꭰ ꭰ ꭰ ꭰ ꭰ ꭰ ꭰ	\mfrake	mathematical fraktur small e
U+1D523	ꭣ ꭣ ꭣ ꭣ ꭣ ꭣ ꭣ ꭣ ꭣ	\mfrakf	mathematical fraktur small f
U+1D524	ꭤ ꭤ ꭤ ꭤ ꭤ ꭤ ꭤ ꭤ ꭤ	\mfrakg	mathematical fraktur small g
U+1D525	ꭧ ꭧ ꭧ ꭧ ꭧ ꭧ ꭧ ꭧ ꭧ	\mfrakh	mathematical fraktur small h
U+1D526	ꭦ ꭦ ꭦ ꭦ ꭦ ꭦ ꭦ ꭦ ꭦ	\mfraki	mathematical fraktur small i
U+1D527	ꭦ ꭦ ꭦ ꭦ ꭦ ꭦ ꭦ ꭦ ꭦ	\mfrakj	mathematical fraktur small j
U+1D528	ꭨ ꭨ ꭨ ꭨ ꭨ ꭨ ꭨ ꭨ ꭨ	\mfrakk	mathematical fraktur small k
U+1D529	ꭩ ꭩ ꭩ ꭩ ꭩ ꭩ ꭩ ꭩ ꭩ	\mfrakl	mathematical fraktur small l
U+1D52A	꭪ ꭪ ꭪ ꭪ ꭪ ꭪ ꭪ ꭪ ꭪	\mfrakm	mathematical fraktur small m
U+1D52B	꭫ ꭫ ꭫ ꭫ ꭫ ꭫ ꭫ ꭫ ꭫	\mfrakn	mathematical fraktur small n
U+1D52C	꭬ ꭬ ꭬ ꭬ ꭬ ꭬ ꭬ ꭬ ꭬	\mfrako	mathematical fraktur small o
U+1D52D	꭭ ꭭ ꭭ ꭭ ꭭ ꭭ ꭭ ꭭ ꭭	\mfrakp	mathematical fraktur small p
U+1D52E	꭮ ꭮ ꭮ ꭮ ꭮ ꭮ ꭮ ꭮ ꭮	\mfrakq	mathematical fraktur small q
U+1D52F	꭯ ꭯ ꭯ ꭯ ꭯ ꭯ ꭯ ꭯ ꭯	\mfrakr	mathematical fraktur small r
U+1D530	ꭰ ꭰ ꭰ ꭰ ꭰ ꭰ ꭰ ꭰ ꭰ	\mfraks	mathematical fraktur small s
U+1D531	ꭱ ꭱ ꭱ ꭱ ꭱ ꭱ ꭱ ꭱ ꭱ	\mfrakt	mathematical fraktur small t
U+1D532	ꭲ ꭲ ꭲ ꭲ ꭲ ꭲ ꭲ ꭲ ꭲ	\mfraku	mathematical fraktur small u
U+1D533	ꭳ ꭳ ꭳ ꭳ ꭳ ꭳ ꭳ ꭳ ꭳ	\mfrakv	mathematical fraktur small v
U+1D534	ꭴ ꭴ ꭴ ꭴ ꭴ ꭴ ꭴ ꭴ ꭴ	\mfrakw	mathematical fraktur small w
U+1D535	ꭵ ꭵ ꭵ ꭵ ꭵ ꭵ ꭵ ꭵ ꭵ	\mfrakx	mathematical fraktur small x
U+1D536	ꭶ ꭶ ꭶ ꭶ ꭶ ꭶ ꭶ ꭶ ꭶ	\mfraky	mathematical fraktur small y
U+1D537	ꭷ ꭷ ꭷ ꭷ ꭷ ꭷ ꭷ ꭷ ꭷ	\mfrakz	mathematical fraktur small z

13.1.11 Blackboard, Latin, uppercase

usv	L X S P D F N H E C R	Macro	Description
U+1D538	𝔸 𝔸 𝔸 𝔸 𝔸 𝔸 𝔸 𝔸 𝔸 𝔸 𝔸	\BbbA	mathematical double-struck capital a
U+1D539	𝔹 𝔹 𝔹 𝔹 𝔹 𝔹 𝔹 𝔹 𝔹 𝔹 𝔹	\BbbB	mathematical double-struck capital b
U+1D53B	𝔻 𝔻 𝔻 𝔻 𝔻 𝔻 𝔻 𝔻 𝔻 𝔻 𝔻	\BbbD	mathematical double-struck capital d
U+1D53C	𝔼 𝔼 𝔼 𝔼 𝔼 𝔼 𝔼 𝔼 𝔼 𝔼 𝔼	\BbbE	mathematical double-struck capital e
U+1D53D	𝔽 𝔽 𝔽 𝔽 𝔽 𝔽 𝔽 𝔽 𝔽 𝔽 𝔽	\BbbF	mathematical double-struck capital f
U+1D53E	𝔾 𝔾 𝔾 𝔾 𝔾 𝔾 𝔾 𝔾 𝔾 𝔾 𝔾	\BbbG	mathematical double-struck capital g
U+1D540	𝕀 𝕀 𝕀 𝕀 𝕀 𝕀 𝕀 𝕀 𝕀 𝕀 𝕀	\BbbI	mathematical double-struck capital i
U+1D541	𝕁 𝕁 𝕁 𝕁 𝕁 𝕁 𝕁 𝕁 𝕁 𝕁 𝕁	\BbbJ	mathematical double-struck capital j
U+1D542	𝕂 𝕂 𝕂 𝕂 𝕂 𝕂 𝕂 𝕂 𝕂 𝕂 𝕂	\BbbK	mathematical double-struck capital k
U+1D543	𝕃 𝕃 𝕃 𝕃 𝕃 𝕃 𝕃 𝕃 𝕃 𝕃 𝕃	\BbbL	mathematical double-struck capital l
U+1D544	𝕄 𝕄 𝕄 𝕄 𝕄 𝕄 𝕄 𝕄 𝕄 𝕄 𝕄	\BbbM	mathematical double-struck capital m
U+1D546	𝕆 𝕆 𝕆 𝕆 𝕆 𝕆 𝕆 𝕆 𝕆 𝕆 𝕆	\BbbO	mathematical double-struck capital o
U+1D54A	𝕊 𝕊 𝕊 𝕊 𝕊 𝕊 𝕊 𝕊 𝕊 𝕊 𝕊	\BbbS	mathematical double-struck capital s
U+1D54B	𝕋 𝕋 𝕋 𝕋 𝕋 𝕋 𝕋 𝕋 𝕋 𝕋 𝕋	\BbbT	mathematical double-struck capital t
U+1D54C	𝕌 𝕌 𝕌 𝕌 𝕌 𝕌 𝕌 𝕌 𝕌 𝕌 𝕌	\BbbU	mathematical double-struck capital u
U+1D54D	𝕍 𝕍 𝕍 𝕍 𝕍 𝕍 𝕍 𝕍 𝕍 𝕍 𝕍	\BbbV	mathematical double-struck capital v
U+1D54E	𝕎 𝕎 𝕎 𝕎 𝕎 𝕎 𝕎 𝕎 𝕎 𝕎 𝕎	\BbbW	mathematical double-struck capital w
U+1D54F	𝕏 𝕏 𝕏 𝕏 𝕏 𝕏 𝕏 𝕏 𝕏 𝕏 𝕏	\BbbX	mathematical double-struck capital x
U+1D550	𝕐 𝕐 𝕐 𝕐 𝕐 𝕐 𝕐 𝕐 𝕐 𝕐 𝕐	\BbbY	mathematical double-struck capital y

13.1.12 Blackboard, Latin, lowercase

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
U+1D552	⅀	a	a	a	a	a	a		a	a	a	\Bbba	mathematical double-struck small a
U+1D553	b	b	b	b	b	b	b		b	b	b	\Bbbb	mathematical double-struck small b
U+1D554	c	c	c	c	c	c	c		c	c	c	\Bbbc	mathematical double-struck small c
U+1D555	d	d	d	d	d	d	d		d	d	d	\Bbbd	mathematical double-struck small d
U+1D556	e	e	e	e	e	e	e		e	e	e	\Bbbe	mathematical double-struck small e
U+1D557	f	f	f	f	f	f	f		f	f	f	\Bbbf	mathematical double-struck small f
U+1D558	g	g	g	g	g	g	g		g	g	g	\Bbbg	mathematical double-struck small g
U+1D559	h	h	h	h	h	h	h		h	h	h	\Bbbh	mathematical double-struck small h
U+1D55A	i	i	i	i	i	i	i		i	i	i	\Bbbi	mathematical double-struck small i
U+1D55B	j	j	j	j	j	j	j		j	j	j	\Bbbj	mathematical double-struck small j
U+1D55C	k	k	k	k	k	k	k		k	k	k	\Bbbk[a]	mathematical double-struck small k
U+1D55D	l	l	l	l	l	l	l		l	l	l	\Bbbl	mathematical double-struck small l
U+1D55E	m	m	m	m	m	m	m		m	m	m	\Bbbm	mathematical double-struck small m
U+1D55F	n	n	n	n	n	n	n		n	n	n	\Bbbn	mathematical double-struck small n
U+1D560	o	o	o	o	o	o	o		o	o	o	\Bbbo	mathematical double-struck small o
U+1D561	p	p	p	p	p	p	p		p	p	p	\Bbbp	mathematical double-struck small p
U+1D562	q	q	q	q	q	q	q		q	q	q	\Bbbq	mathematical double-struck small q
U+1D563	r	r	r	r	r	r	r		r	r	r	\Bbbr	mathematical double-struck small r
U+1D564	s	s	s	s	s	s	s		s	s	s	\Bbbs	mathematical double-struck small s
U+1D565	t	t	t	t	t	t	t		t	t	t	\Bbbt	mathematical double-struck small t
U+1D566	u	u	u	u	u	u	u		u	u	u	\Bbbu	mathematical double-struck small u
U+1D567	v	v	v	v	v	v	v		v	v	v	\Bbbv	mathematical double-struck small v
U+1D568	w	w	w	w	w	w	w		w	w	w	\Bbbw	mathematical double-struck small w
U+1D569	x	x	x	x	x	x	x		x	x	x	\Bbbx	mathematical double-struck small x
U+1D56A	y	y	y	y	y	y	y		y	y	y	\Bbby	mathematical double-struck small y
U+1D56B	z	z	z	z	z	z	z		z	z	z	\Bbbz	mathematical double-struck small z

13.1.13 Sans serif, Latin, uppercase

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
U+1D5A0	A	A	A	A		A			A	A	A	\msansA	mathematical sans-serif capital a
U+1D5A1	B	B	B	B	B				B	B	B	\msansB	mathematical sans-serif capital b
U+1D5A2	C	C	C	C		C			C	C	C	\msansC	mathematical sans-serif capital c
U+1D5A3	D	D	D	D		D			D	D	D	\msansD	mathematical sans-serif capital d
U+1D5A4	E	E	E	E		E			E	E	E	\msansE	mathematical sans-serif capital e
U+1D5A5	F	F	F	F		F			F	F	F	\msansF	mathematical sans-serif capital f
U+1D5A6	G	G	G	G		G			G	G	G	\msansG	mathematical sans-serif capital g
U+1D5A7	H	H	H	H	H				H	H	H	\msansH	mathematical sans-serif capital h
U+1D5A8	I	I	I	I		I			I	I	I	\msansI	mathematical sans-serif capital i
U+1D5A9	J	J	J	J		J			J	J	J	\msansJ	mathematical sans-serif capital j
U+1D5AA	K	K	K	K		K			K	K	K	\msansK	mathematical sans-serif capital k
U+1D5AB	L	L	L	L		L			L	L	L	\msansL	mathematical sans-serif capital l
U+1D5AC	M	M	M	M	M				M	M	M	\msansM	mathematical sans-serif capital m
U+1D5AD	N	N	N	N		N			N	N	N	\msansN	mathematical sans-serif capital n

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

13.1.14 Sans serif, Latin, lowercase

USV	L X S P D F N H E C R	Macro	Description
U+1D5BA	a a a a a a a a a	\msansa	mathematical sans-serif small a
U+1D5BB	b b b b b b b b b	\msansb	mathematical sans-serif small b
U+1D5BC	c c c c c c c c c	\msansc	mathematical sans-serif small c
U+1D5BD	d d d d d d d d d	\msansd	mathematical sans-serif small d
U+1D5BE	e e e e e e e e e	\msanse	mathematical sans-serif small e
U+1D5BF	f f f f f f f f f	\msansf	mathematical sans-serif small f
U+1D5C0	g g g g g g g g g	\msansg	mathematical sans-serif small g
U+1D5C1	h h h h h h h h h	\msansh	mathematical sans-serif small h
U+1D5C2	i i i i i i i i i	\msansi	mathematical sans-serif small i
U+1D5C3	j j j j j j j j j	\msansj	mathematical sans-serif small j
U+1D5C4	k k k k k k k k k	\msansk	mathematical sans-serif small k
U+1D5C5	l l l l l l l l l	\msansl	mathematical sans-serif small l
U+1D5C6	m m m m m m m m m	\msansm	mathematical sans-serif small m
U+1D5C7	n n n n n n n n n	\msansn	mathematical sans-serif small n
U+1D5C8	o o o o o o o o o	\msanso	mathematical sans-serif small o
U+1D5C9	p p p p p p p p p	\msansp	mathematical sans-serif small p
U+1D5CA	q q q q q q q q q	\msansq	mathematical sans-serif small q
U+1D5CB	r r r r r r r r r	\msansr	mathematical sans-serif small r
U+1D5CC	s s s s s s s s s	\msanss	mathematical sans-serif small s
U+1D5CD	t t t t t t t t t	\msanst	mathematical sans-serif small t
U+1D5CE	u u u u u u u u u	\msansu	mathematical sans-serif small u
U+1D5CF	v v v v v v v v v	\msansv	mathematical sans-serif small v
U+1D5D0	w w w w w w w w w	\msansw	mathematical sans-serif small w
U+1D5D1	x x x x x x x x x	\msansx	mathematical sans-serif small x
U+1D5D2	y y y y y y y y y	\msansy	mathematical sans-serif small y
U+1D5D3	z z z z z z z z z	\msansz	mathematical sans-serif small z

13.1.15 Italic sans serif, Latin, uppercase

USV	L X S P D F N H E C R	Macro	Description
U+1D608	A A A A A A A A	\mitsansA	mathematical sans-serif italic capital a
U+1D609	B B B B B B B B	\mitsansB	mathematical sans-serif italic capital b
U+1D60A	C C C C C C C C	\mitsansC	mathematical sans-serif italic capital c
U+1D60B	D D D D D D D D	\mitsansD	mathematical sans-serif italic capital d
U+1D60C	E E E E E E E E	\mitsansE	mathematical sans-serif italic capital e
U+1D60D	F F F F F F F F	\mitsansF	mathematical sans-serif italic capital f
U+1D60E	G G G G G G G G	\mitsansG	mathematical sans-serif italic capital g
U+1D60F	H H H H H H H H	\mitsansH	mathematical sans-serif italic capital h
U+1D610	I I I I I I I I	\mitsansI	mathematical sans-serif italic capital i
U+1D611	J J J J J J J J	\mitsansJ	mathematical sans-serif italic capital j
U+1D612	K K K K K K K K	\mitsansK	mathematical sans-serif italic capital k
U+1D613	L L L L L L L L	\mitsansL	mathematical sans-serif italic capital l
U+1D614	M M M M M M M M	\mitsansM	mathematical sans-serif italic capital m
U+1D615	N N N N N N N N	\mitsansN	mathematical sans-serif italic capital n
U+1D616	O O O O O O O O	\mitsansO	mathematical sans-serif italic capital o
U+1D617	P P P P P P P P	\mitsansP	mathematical sans-serif italic capital p
U+1D618	Q Q Q Q Q Q Q Q	\mitsansQ	mathematical sans-serif italic capital q
U+1D619	R R R R R R R R	\mitsansR	mathematical sans-serif italic capital r
U+1D61A	S S S S S S S S	\mitsansS	mathematical sans-serif italic capital s
U+1D61B	T T T T T T T T	\mitsansT	mathematical sans-serif italic capital t
U+1D61C	U U U U U U U U	\mitsansU	mathematical sans-serif italic capital u
U+1D61D	V V V V V V V V	\mitsansV	mathematical sans-serif italic capital v
U+1D61E	W W W W W W W W W	\mitsansW	mathematical sans-serif italic capital w
U+1D61F	X X X X X X X X	\mitsansX	mathematical sans-serif italic capital x
U+1D620	Y Y Y Y Y Y Y Y	\mitsansY	mathematical sans-serif italic capital y
U+1D621	Z Z Z Z Z Z Z Z	\mitsansZ	mathematical sans-serif italic capital z

13.1.16 Italic sans serif, Latin, lowercase

USV	L X S P D F N H E C R	Macro	Description
U+1D622	a a a a a a a a	\mitsansa	mathematical sans-serif italic small a
U+1D623	b b b b b b b b b	\mitsansb	mathematical sans-serif italic small b
U+1D624	c c c c c c c c c	\mitsansc	mathematical sans-serif italic small c
U+1D625	d d d d d d d d d	\mitsansd	mathematical sans-serif italic small d
U+1D626	e e e e e e e e e	\mitsanse	mathematical sans-serif italic small e
U+1D627	f f f f f f f f f	\mitsansf	mathematical sans-serif italic small f
U+1D628	g g g g g g g g g	\mitsansg	mathematical sans-serif italic small g
U+1D629	h h h h h h h h h	\mitsansh	mathematical sans-serif italic small h
U+1D62A	i i i i i i i i i	\mitsansi	mathematical sans-serif italic small i
U+1D62B	j j j j j j j j j	\mitsansj	mathematical sans-serif italic small j
U+1D62C	k k k k k k k k k	\mitsansk	mathematical sans-serif italic small k
U+1D62D	l l l l l l l l l	\mitsansl	mathematical sans-serif italic small l
U+1D62E	m m m m m m m m m	\mitsansm	mathematical sans-serif italic small m
U+1D62F	n n n n n n n n n	\mitsansn	mathematical sans-serif italic small n
U+1D630	o o o o o o o o o	\mitsanso	mathematical sans-serif italic small o
U+1D631	p p p p p p p p p	\mitsansp	mathematical sans-serif italic small p
U+1D632	q q q q q q q q q	\mitsansq	mathematical sans-serif italic small q

USV	L X S P D F N H E C R	Macro	Description
U+1D633	*r r r r r r r r r*	\mitsansr	mathematical sans-serif italic small r
U+1D634	*s s s s s s s s s*	\mitsanss	mathematical sans-serif italic small s
U+1D635	*t t t t t t t t t*	\mitsanst	mathematical sans-serif italic small t
U+1D636	*u u u u u u u u u*	\mitsansu	mathematical sans-serif italic small u
U+1D637	*v v v v v v v v v*	\mitsansv	mathematical sans-serif italic small v
U+1D638	*w w w w w w w w w*	\mitsansw	mathematical sans-serif italic small w
U+1D639	*x x x x x x x x x*	\mitsansx	mathematical sans-serif italic small x
U+1D63A	*y y y y y y y y y*	\mitsansy	mathematical sans-serif italic small y
U+1D63B	*z z z z z z z z z*	\mitsansz	mathematical sans-serif italic small z

13.1.17 Typewriter, Latin, uppercase

USV	L X S P D F N H E C R	Macro	Description
U+1D670	A A A A A A A A A A	\ttA	mathematical monospace capital a
U+1D671	B B B B B B B B B B	\ttB	mathematical monospace capital b
U+1D672	C C C C C C C C C C	\ttC	mathematical monospace capital c
U+1D673	D D D D D D D D D D	\ttD	mathematical monospace capital d
U+1D674	E E E E E E E E E E	\ttE	mathematical monospace capital e
U+1D675	F F F F F F F F F F	\ttF	mathematical monospace capital f
U+1D676	G G G G G G G G G G	\ttG	mathematical monospace capital g
U+1D677	H H H H H H H H H H	\ttH	mathematical monospace capital h
U+1D678	I I I I I I I I I I	\ttI	mathematical monospace capital i
U+1D679	J J J J J J J J J J	\ttJ	mathematical monospace capital j
U+1D67A	K K K K K K K K K K	\ttK	mathematical monospace capital k
U+1D67B	L L L L L L L L L L	\ttL	mathematical monospace capital l
U+1D67C	M M M M M M M M M M	\ttM	mathematical monospace capital m
U+1D67D	N N N N N N N N N N	\ttN	mathematical monospace capital n
U+1D67E	O O O O O O O O O O	\ttO	mathematical monospace capital o
U+1D67F	P P P P P P P P P P	\ttP	mathematical monospace capital p
U+1D680	Q Q Q Q Q Q Q Q Q Q	\ttQ	mathematical monospace capital q
U+1D681	R R R R R R R R R R	\ttR	mathematical monospace capital r
U+1D682	S S S S S S S S S S	\ttS	mathematical monospace capital s
U+1D683	T T T T T T T T T T	\ttT	mathematical monospace capital t
U+1D684	U U U U U U U U U U	\ttU	mathematical monospace capital u
U+1D685	V V V V V V V V V V	\ttV	mathematical monospace capital v
U+1D686	W W W W W W W W W W	\ttW	mathematical monospace capital w
U+1D687	X X X X X X X X X X	\ttX	mathematical monospace capital x
U+1D688	Y Y Y Y Y Y Y Y Y Y	\ttY	mathematical monospace capital y
U+1D689	Z Z Z Z Z Z Z Z Z Z	\ttZ	mathematical monospace capital z

13.1.18 Typewriter, Latin, lowercase

USV	L X S P D F N H E C R	Macro	Description
U+1D68A	a a a a a a a a a a	\tta	mathematical monospace small a

USV	L X S P D F N H E C R	Macro	Description
U+1D68B	b b b b b b b b b b	\ttb	mathematical monospace small b
U+1D68C	c c c c c c c c c c	\ttc	mathematical monospace small c
U+1D68D	d d d d d d d d d d	\ttd	mathematical monospace small d
U+1D68E	e e e e e e e e e e	\tte	mathematical monospace small e
U+1D68F	f f f f f f f f f f	\ttf	mathematical monospace small f
U+1D690	g g g g g g g g g g	\ttg	mathematical monospace small g
U+1D691	h h h h h h h h h h	\tth	mathematical monospace small h
U+1D692	i i i i i i i i i i	\tti	mathematical monospace small i
U+1D693	j j j j j j j j j j	\ttj	mathematical monospace small j
U+1D694	k k k k k k k k k k	\ttk	mathematical monospace small k
U+1D695	l l l l l l l l l l	\ttl	mathematical monospace small l
U+1D696	m m m m m m m m m m	\ttm	mathematical monospace small m
U+1D697	n n n n n n n n n n	\ttn	mathematical monospace small n
U+1D698	o o o o o o o o o o	\tto	mathematical monospace small o
U+1D699	p p p p p p p p p p	\ttp	mathematical monospace small p
U+1D69A	q q q q q q q q q q	\ttq	mathematical monospace small q
U+1D69B	r r r r r r r r r r	\ttr	mathematical monospace small r
U+1D69C	s s s s s s s s s s	\tts	mathematical monospace small s
U+1D69D	t t t t t t t t t t	\ttt	mathematical monospace small t
U+1D69E	u u u u u u u u u u	\ttu	mathematical monospace small u
U+1D69F	v v v v v v v v v v	\ttv	mathematical monospace small v
U+1D6A0	w w w w w w w w w w	\ttw	mathematical monospace small w
U+1D6A1	x x x x x x x x x x	\ttx	mathematical monospace small x
U+1D6A2	y y y y y y y y y y	\tty	mathematical monospace small y
U+1D6A3	z z z z z z z z z z	\ttz	mathematical monospace small z

13.2   Bold

13.2.1   Bold, Latin, uppercase

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

USV	L X S P D F N H E C R	Macro	Description
U+1D410	Q Q Q Q Q Q Q Q Q Q	\mbfQ	mathematical bold capital q
U+1D411	R R R R R R R R R R	\mbfR	mathematical bold capital r
U+1D412	S S S S S S S S S S	\mbfS	mathematical bold capital s
U+1D413	T T T T T T T T T T	\mbfT	mathematical bold capital t
U+1D414	U U U U U U U U U U	\mbfU	mathematical bold capital u
U+1D415	V V V V V V V V V V	\mbfV	mathematical bold capital v
U+1D416	W W W W W W W W W W	\mbfW	mathematical bold capital w
U+1D417	X X X X X X X X X X	\mbfX	mathematical bold capital x
U+1D418	Y Y Y Y Y Y Y Y Y Y	\mbfY	mathematical bold capital y
U+1D419	Z Z Z Z Z Z Z Z Z Z	\mbfZ	mathematical bold capital z

13.2.2 Bold, Latin, lowercase

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

13.2.3 Bold Greek, uppercase

USV	L X S P D F N H E C R	Macro	Description
U+1D6A8	A A A A A A A A A A	\mbfAlpha	mathematical bold capital alpha
U+1D6A9	B B B B B B B B B B	\mbfBeta	mathematical bold capital beta
U+1D6AA	Γ Γ Γ Γ Γ Γ Γ Γ Γ Γ	\mbfGamma	mathematical bold capital gamma
U+1D6AB	Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ	\mbfDelta	mathematical bold capital delta
U+1D6AC	E E E E E E E E E E	\mbfEpsilon	mathematical bold capital epsilon
U+1D6AD	Z Z Z Z Z Z Z Z Z Z	\mbfZeta	mathematical bold capital zeta
U+1D6AE	H H H H H H H H H H	\mbfEta	mathematical bold capital eta
U+1D6AF	Θ Θ Θ Θ Θ Θ Θ Θ Θ Θ	\mbfTheta	mathematical bold capital theta
U+1D6B0	I I I I I I I I I I	\mbfIota	mathematical bold capital iota
U+1D6B1	K K K K K K K K K K	\mbfKappa	mathematical bold capital kappa
U+1D6B2	Λ Λ Λ Λ Λ Λ Λ Λ Λ Λ	\mbfLambda	mathematical bold capital lambda
U+1D6B3	M M M M M M M M M M	\mbfMu	mathematical bold capital mu
U+1D6B4	N N N N N N N N N N	\mbfNu	mathematical bold capital nu
U+1D6B5	Ξ Ξ Ξ Ξ Ξ Ξ Ξ Ξ Ξ Ξ	\mbfXi	mathematical bold capital xi
U+1D6B6	O O O O O O O O O O	\mbfOmicron	mathematical bold capital omicron
U+1D6B7	Π Π Π Π Π Π Π Π Π Π	\mbfPi	mathematical bold capital pi
U+1D6B8	P P P P P P P P P P	\mbfRho	mathematical bold capital rho
U+1D6B9	Θ Θ Θ Θ Θ Θ Θ Θ Θ Θ	\mbfvarTheta	mathematical bold capital theta symbol
U+1D6BA	Σ Σ Σ Σ Σ Σ Σ Σ Σ Σ	\mbfSigma	mathematical bold capital sigma
U+1D6BB	T T T T T T T T T T	\mbfTau	mathematical bold capital tau
U+1D6BC	Υ Υ Υ Υ Υ Υ Υ Υ Υ Υ	\mbfUpsilon	mathematical bold capital upsilon
U+1D6BD	Φ Φ Φ Φ Φ Φ Φ Φ Φ Φ	\mbfPhi	mathematical bold capital phi
U+1D6BE	X X X X X X X X X X	\mbfChi	mathematical bold capital chi
U+1D6BF	Ψ Ψ Ψ Ψ Ψ Ψ Ψ Ψ Ψ Ψ	\mbfPsi	mathematical bold capital psi
U+1D6C0	Ω Ω Ω Ω Ω Ω Ω Ω Ω Ω	\mbfOmega	mathematical bold capital omega

13.2.4 Bold Greek, lowercase

USV	L X S P D F N H E C R	Macro	Description
U+1D6C2	α α α α α α α α α α	\mbfalpha	mathematical bold small alpha
U+1D6C3	β β β β β β β β β β	\mbfbeta	mathematical bold small beta
U+1D6C4	γ γ γ γ ν γ γ γ γ γ	\mbfgamma	mathematical bold small gamma
U+1D6C5	δ δ δ δ δ δ δ δ δ δ	\mbfdelta	mathematical bold small delta
U+1D6C6	ε ε ε ε ε ε ε ε ε ε	\mbfvarepsilon	mathematical bold small varepsilon
U+1D6C7	ζ ζ ζ ζ ζ ζ ζ ζ ζ ζ	\mbfzeta	mathematical bold small zeta
U+1D6C8	η η η η η η η η η η	\mbfeta	mathematical bold small eta
U+1D6C9	θ θ θ θ θ θ θ θ θ θ	\mbftheta	mathematical bold small theta
U+1D6CA	ι ι ι ι ι ι ι ι ι ι	\mbfiota	mathematical bold small iota
U+1D6CB	κ κ κ κ κ κ κ κ κ κ	\mbfkappa	mathematical bold small kappa
U+1D6CC	λ λ λ λ λ λ λ λ λ λ	\mbflambda	mathematical bold small lambda
U+1D6CD	μ μ μ μ μ μ μ μ μ μ	\mbfmu	mathematical bold small mu
U+1D6CE	ν ν ν ν ν ν ν ν ν ν	\mbfnu	mathematical bold small nu
U+1D6CF	ξ ξ ξ ξ ξ ξ ξ ξ ξ ξ	\mbfxi	mathematical bold small xi
U+1D6D0	ο ο ο ο ο ο ο ο ο ο	\mbfomicron	mathematical bold small omicron
U+1D6D1	π π π π π π π π π π	\mbfpi	mathematical bold small pi
U+1D6D2	ρ ρ ρ ρ ρ ρ ρ ρ ρ ρ	\mbfrho	mathematical bold small rho
U+1D6D3	ς ς ς ς ς ς ς ς ς ς	\mbfvarsigma	mathematical bold small final sigma

USV	L X S P D F N H E C R	Macro	Description
U+1D6D4	σ σ σ σ σ σ σ σ σ σ σ	\mbfsigma	mathematical bold small sigma
U+1D6D5	τ τ τ τ τ τ τ τ τ τ τ	\mbftau	mathematical bold small tau
U+1D6D6	υ υ υ υ υ υ υ υ υ υ υ	\mbfupsilon	mathematical bold small upsilon
U+1D6D7	φ φ φ φ φ φ φ φ φ φ φ	\mbfvarphi	mathematical bold small phi
U+1D6D8	χ χ χ χ χ χ χ χ χ χ χ	\mbfchi	mathematical bold small chi
U+1D6D9	ψ ψ ψ ψ ψ ψ ψ ψ ψ ψ	\mbfpsi	mathematical bold small psi
U+1D6DA	ω ω ω ω 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 ϵ ϵ ϵ ϵ	\mbfepsilon	mathematical bold varepsilon symbol
U+1D6DD	ϑ ϑ ϑ ϑ ϑ ϑ ϑ ϑ ϑ ϑ ϑ	\mbfvartheta	mathematical bold theta symbol
U+1D6DE	ϰ ϰ ϰ ϰ ϰ ϰ ϰ ϰ ϰ ϰ ϰ	\mbfvarkappa	mathematical bold kappa symbol
U+1D6DF	ϕ ϕ ϕ ϕ ϕ ϕ ϕ ϕ ϕ ϕ ϕ	\mbfphi	mathematical bold phi symbol
U+1D6E0	ϱ ϱ ϱ ϱ ϱ ϱ ϱ ϱ ϱ ϱ ϱ	\mbfvarrho	mathematical bold rho symbol
U+1D6E1	ϖ ϖ ϖ ϖ ϖ ϖ ϖ ϖ ϖ ϖ ϖ	\mbfvarpi	mathematical bold pi symbol

13.2.5 Bold italic, Latin, uppercase

USV	L X S P D F N H E C R	Macro	Description
U+1D468	*A A A A A A A A A A A*	\mbfitA	mathematical bold italic capital a
U+1D469	*B B B B B B B B B B B*	\mbfitB	mathematical bold italic capital b
U+1D46A	*C C C C C C C C C C C*	\mbfitC	mathematical bold italic capital c
U+1D46B	*D D D D D D D D D D D*	\mbfitD	mathematical bold italic capital d
U+1D46C	*E E E E E E E E E E E*	\mbfitE	mathematical bold italic capital e
U+1D46D	*F F F F F F F F F F F*	\mbfitF	mathematical bold italic capital f
U+1D46E	*G G G G G G G G G G G*	\mbfitG	mathematical bold italic capital g
U+1D46F	*H H H H H H H H H H H*	\mbfitH	mathematical bold italic capital h
U+1D470	*I I I I I I I I I I I*	\mbfitI	mathematical bold italic capital i
U+1D471	*J J J J J J J J J J J*	\mbfitJ	mathematical bold italic capital j
U+1D472	*K K K K K K K K K K K*	\mbfitK	mathematical bold italic capital k
U+1D473	*L L L L L L L L L L L*	\mbfitL	mathematical bold italic capital l
U+1D474	*M M M M M M M M M M M*	\mbfitM	mathematical bold italic capital m
U+1D475	*N N N N N N N N N N N*	\mbfitN	mathematical bold italic capital n
U+1D476	*O O O O O O O O O O O*	\mbfitO	mathematical bold italic capital o
U+1D477	*P P P P P P P P P P P*	\mbfitP	mathematical bold italic capital p
U+1D478	*Q Q Q Q Q Q Q Q Q Q Q*	\mbfitQ	mathematical bold italic capital q
U+1D479	*R R R R R R R R R R R*	\mbfitR	mathematical bold italic capital r
U+1D47A	*S S S S S S S S S S S*	\mbfitS	mathematical bold italic capital s
U+1D47B	*T T T T T T T T T T T*	\mbfitT	mathematical bold italic capital t
U+1D47C	*U U U U U U U U U U U*	\mbfitU	mathematical bold italic capital u
U+1D47D	*V V V V V V V V V V V*	\mbfitV	mathematical bold italic capital v
U+1D47E	*W W W W W W W W W W W*	\mbfitW	mathematical bold italic capital w
U+1D47F	*X X X X X X X X X X X*	\mbfitX	mathematical bold italic capital x
U+1D480	*Y Y Y Y Y Y Y Y Y Y Y*	\mbfitY	mathematical bold italic capital y
U+1D481	*Z Z Z Z Z Z Z Z Z Z Z*	\mbfitZ	mathematical bold italic capital z

13.2.6 Bold italic, Latin, lowercase

USV	L X S P D F N H E C R	Macro	Description
U+1D482	*a a a a a a a a a a*	\mbfita	mathematical bold italic small a
U+1D483	*b b b b b b b b b b*	\mbfitb	mathematical bold italic small b
U+1D484	*c c c c c c c c c c*	\mbfitc	mathematical bold italic small c
U+1D485	*d d d d d d d d d d*	\mbfitd	mathematical bold italic small d
U+1D486	*e e e e e e e e e e*	\mbfite	mathematical bold italic small e
U+1D487	*f f f f f f f f f f*	\mbfitf	mathematical bold italic small f
U+1D488	*g g g g g g g g g g*	\mbfitg	mathematical bold italic small g
U+1D489	*h h h h h h h h h h*	\mbfith	mathematical bold italic small h
U+1D48A	*i i i i i i i i i i*	\mbfiti	mathematical bold italic small i
U+1D48B	*j j j j j j j j j j*	\mbfitj	mathematical bold italic small j
U+1D48C	*k k k k k k k k k k*	\mbfitk	mathematical bold italic small k
U+1D48D	*l l l l l l l l l l*	\mbfitl	mathematical bold italic small l
U+1D48E	*m m m m m m m m m m*	\mbfitm	mathematical bold italic small m
U+1D48F	*n n n n n n n n n n*	\mbfitn	mathematical bold italic small n
U+1D490	*o o o o o o o o o o*	\mbfito	mathematical bold italic small o
U+1D491	*p p p p p p p p p p*	\mbfitp	mathematical bold italic small p
U+1D492	*q q q q q q q q q q*	\mbfitq	mathematical bold italic small q
U+1D493	*r r r r r r r r r r*	\mbfitr	mathematical bold italic small r
U+1D494	*s s s s s s s s s s*	\mbfits	mathematical bold italic small s
U+1D495	*t t t t t t t t t t*	\mbfitt	mathematical bold italic small t
U+1D496	*u u u u u u u u u u*	\mbfitu	mathematical bold italic small u
U+1D497	*v v v v v v v v v v*	\mbfitv	mathematical bold italic small v
U+1D498	*w w w w w w w w w w*	\mbfitw	mathematical bold italic small w
U+1D499	*x x x x x x x x x x*	\mbfitx	mathematical bold italic small x
U+1D49A	*y y y y y y y y y y*	\mbfity	mathematical bold italic small y
U+1D49B	*z z z z z z z z z z*	\mbfitz	mathematical bold italic small z

13.2.7 Bold italic Greek, uppercase

USV	L X S P D F N H E C R	Macro	Description
U+1D71C	*A A A A A A A A A A*	\mbfitAlpha	mathematical bold italic capital alpha
U+1D71D	*B B B B B B B B B B*	\mbfitBeta	mathematical bold italic capital beta
U+1D71E	*Γ Γ Γ Γ Γ Γ Γ Γ Γ Γ*	\mbfitGamma	mathematical bold italic capital gamma
U+1D71F	*Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ*	\mbfitDelta	mathematical bold italic capital delta
U+1D720	*E E E E E E E E E E*	\mbfitEpsilon	mathematical bold italic capital epsilon
U+1D721	*Z Z Z Z Z Z Z Z Z Z*	\mbfitZeta	mathematical bold italic capital zeta
U+1D722	*H H H H H H H H H H*	\mbfitEta	mathematical bold italic capital eta
U+1D723	*Θ Θ Θ Θ Θ Θ Θ Θ Θ Θ*	\mbfitTheta	mathematical bold italic capital theta
U+1D724	*I I I I I I I I I I*	\mbfitIota	mathematical bold italic capital iota
U+1D725	*K K K K K K K K K K*	\mbfitKappa	mathematical bold italic capital kappa
U+1D726	*Λ Λ Λ Λ Λ Λ Λ Λ Λ Λ*	\mbfitLambda	mathematical bold italic capital lambda
U+1D727	*M M M M M M M M M M*	\mbfitMu	mathematical bold italic capital mu
U+1D728	*N N N N N N N N N N*	\mbfitNu	mathematical bold italic capital nu
U+1D729	*Ξ Ξ Ξ Ξ Ξ Ξ Ξ Ξ Ξ Ξ*	\mbfitXi	mathematical bold italic capital xi

USV	L X S P D F N H E C R	Macro	Description
U+1D72A	*O O O O O O O O O O O*	\mbfitOmicron	mathematical bold italic capital omicron
U+1D72B	*Π Π Π Π Π Π Π Π Π Π Π*	\mbfitPi	mathematical bold italic capital pi
U+1D72C	*P P P P P P P P P P P*	\mbfitRho	mathematical bold italic capital rho
U+1D72D	*Θ Θ Θ Θ Θ Θ Θ Θ Θ Θ Θ*	\mbfitvarTheta	mathematical bold italic capital theta symbol
U+1D72E	*Σ Σ Σ Σ Σ Σ Σ Σ Σ Σ Σ*	\mbfitSigma	mathematical bold italic capital sigma
U+1D72F	*T T T T T T T T T T T*	\mbfitTau	mathematical bold italic capital tau
U+1D730	*Υ Υ Υ Υ Υ Υ Υ Υ Υ Υ Υ*	\mbfitUpsilon	mathematical bold italic capital upsilon
U+1D731	*Φ Φ Φ Φ Φ Φ Φ Φ Φ Φ Φ*	\mbfitPhi	mathematical bold italic capital phi
U+1D732	*X X X X X X X X X X X*	\mbfitChi	mathematical bold italic capital chi
U+1D733	*Ψ Ψ Ψ Ψ Ψ Ψ Ψ Ψ Ψ Ψ Ψ*	\mbfitPsi	mathematical bold italic capital psi
U+1D734	*Ω Ω Ω Ω Ω Ω Ω Ω Ω Ω Ω*	\mbfitOmega	mathematical bold italic capital omega

13.2.8 Bold italic Greek, lowercase

USV	L X S P D F N H E C R	Macro	Description
U+1D736	*α α α α α α α α α α α*	\mbfitalpha	mathematical bold italic small alpha
U+1D737	*β β β β β β β β β β β*	\mbfitbeta	mathematical bold italic small beta
U+1D738	*γ γ γ γ γ γ γ γ γ γ γ*	\mbfitgamma	mathematical bold italic small gamma
U+1D739	*δ δ δ δ δ δ δ δ δ δ δ*	\mbfitdelta	mathematical bold italic small delta
U+1D73A	*ε ε ε ε ε ε ε ε ε ε ε*	\mbfitvarepsilon	mathematical bold italic small varepsilon
U+1D73B	*ζ ζ ζ ζ ζ ζ ζ ζ ζ ζ ζ*	\mbfitzeta	mathematical bold italic small zeta
U+1D73C	*η η η η η η η η η η η*	\mbfiteta	mathematical bold italic small eta
U+1D73D	*θ θ θ θ θ θ θ θ θ θ θ*	\mbfittheta	mathematical bold italic small theta
U+1D73E	*ι ι ι ι ι ι ι ι ι ι ι*	\mbfitiota	mathematical bold italic small iota
U+1D73F	*κ κ κ κ κ κ κ κ κ κ κ*	\mbfitkappa	mathematical bold italic small kappa
U+1D740	*λ λ λ λ λ λ λ λ λ λ λ*	\mbfitlambda	mathematical bold italic small lambda
U+1D741	*μ μ μ μ μ μ μ μ μ μ μ*	\mbfitmu	mathematical bold italic small mu
U+1D742	*ν ν ν ν ν ν ν ν ν ν ν*	\mbfitnu	mathematical bold italic small nu
U+1D743	*ξ ξ ξ ξ ξ ξ ξ ξ ξ ξ ξ*	\mbfitxi	mathematical bold italic small xi
U+1D744	*o o o o o o o o o o o*	\mbfitomicron	mathematical bold italic small omicron
U+1D745	*π π π π π π π π π π π*	\mbfitpi	mathematical bold italic small pi
U+1D746	*ρ ρ ρ ρ ρ ρ ρ ρ ρ ρ ρ*	\mbfitrho	mathematical bold italic small rho
U+1D747	*ς ς ς ς ς ς ς ς ς ς ς*	\mbfitvarsigma	mathematical bold italic small final sigma
U+1D748	*σ σ σ σ σ σ σ σ σ σ σ*	\mbfitsigma	mathematical bold italic small sigma
U+1D749	*τ τ τ τ τ τ τ τ τ τ τ*	\mbfittau	mathematical bold italic small tau
U+1D74A	*υ υ υ υ υ υ υ υ υ υ υ*	\mbfitupsilon	mathematical bold italic small upsilon
U+1D74B	*φ φ φ φ φ φ φ φ φ φ φ*	\mbfitvarphi	mathematical bold italic small phi
U+1D74C	*χ χ χ χ χ χ χ χ χ χ χ*	\mbfitchi	mathematical bold italic small chi
U+1D74D	*ψ ψ ψ ψ ψ ψ ψ ψ ψ ψ ψ*	\mbfitpsi	mathematical bold italic small psi
U+1D74E	*ω ω ω ω 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 ε ε ε ε*	\mbfitepsilon	mathematical bold italic varepsilon symbol
U+1D751	*ϑ ϑ ϑ ϑ ϑ ϑ ϑ ϑ ϑ ϑ ϑ*	\mbfitvartheta	mathematical bold italic theta symbol
U+1D752	*ϰ ϰ ϰ ϰ ϰ ϰ ϰ ϰ ϰ ϰ ϰ*	\mbfitvarkappa	mathematical bold italic kappa symbol
U+1D753	*ϕ ϕ ϕ ϕ ϕ ϕ ϕ ϕ ϕ ϕ ϕ*	\mbfitphi	mathematical bold italic phi symbol
U+1D754	*ϱ ϱ ϱ ϱ ϱ ϱ ϱ ϱ ϱ ϱ ϱ*	\mbfitvarrho	mathematical bold italic rho symbol
U+1D755	*ϖ ϖ ϖ ϖ ϖ ϖ ϖ ϖ ϖ ϖ ϖ*	\mbfitvarpi	mathematical bold italic pi symbol

13.2.9 Bold script, Latin, uppercase

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
U+1D4D0	𝒜	𝒜	𝒜	𝒜		𝒜		𝒜		𝒜	𝒜	\mbfscrA	mathematical bold script capital a
U+1D4D1	ℬ	ℬ	ℬ	ℬ		ℬ		ℬ		ℬ	ℬ	\mbfscrB	mathematical bold script capital b
U+1D4D2	𝒞	𝒞	𝒞	𝒞		𝒞		𝒞		𝒞	𝒞	\mbfscrC	mathematical bold script capital c
U+1D4D3	𝒟	𝒟	𝒟	𝒟		𝒟		𝒟		𝒟	𝒟	\mbfscrD	mathematical bold script capital d
U+1D4D4	ℰ	ℰ	ℰ	ℰ		ℰ		ℰ		ℰ	ℰ	\mbfscrE	mathematical bold script capital e
U+1D4D5	ℱ	ℱ	ℱ	ℱ		ℱ		ℱ		ℱ	ℱ	\mbfscrF	mathematical bold script capital f
U+1D4D6	𝒢	𝒢	𝒢	𝒢		𝒢		𝒢		𝒢	𝒢	\mbfscrG	mathematical bold script capital g
U+1D4D7	ℋ	ℋ	ℋ	ℋ		ℋ		ℋ		ℋ	ℋ	\mbfscrH	mathematical bold script capital h
U+1D4D8	ℐ	ℐ	ℐ	ℐ		ℐ		ℐ		ℐ	ℐ	\mbfscrI	mathematical bold script capital i
U+1D4D9	𝒥	𝒥	𝒥	𝒥		𝒥		𝒥		𝒥	𝒥	\mbfscrJ	mathematical bold script capital j
U+1D4DA	𝒦	𝒦	𝒦	𝒦		𝒦		𝒦		𝒦	𝒦	\mbfscrK	mathematical bold script capital k
U+1D4DB	ℒ	ℒ	ℒ	ℒ		ℒ		ℒ		ℒ	ℒ	\mbfscrL	mathematical bold script capital l
U+1D4DC	ℳ	ℳ	ℳ	ℳ	ℳ		ℳ			ℳ	ℳ	\mbfscrM	mathematical bold script capital m
U+1D4DD	𝒩	𝒩	𝒩	𝒩	𝒩		𝒩			𝒩	𝒩	\mbfscrN	mathematical bold script capital n
U+1D4DE	𝒪	𝒪	𝒪	𝒪		𝒪		𝒪		𝒪	𝒪	\mbfscrO	mathematical bold script capital o
U+1D4DF	𝒫	𝒫	𝒫	𝒫		𝒫		𝒫		𝒫	𝒫	\mbfscrP	mathematical bold script capital p
U+1D4E0	𝒬	𝒬	𝒬	𝒬		𝒬		𝒬		𝒬	𝒬	\mbfscrQ	mathematical bold script capital q
U+1D4E1	ℛ	ℛ	ℛ	ℛ		ℛ		ℛ		ℛ	ℛ	\mbfscrR	mathematical bold script capital r
U+1D4E2	𝒮	𝒮	𝒮	𝒮		𝒮		𝒮		𝒮	𝒮	\mbfscrS	mathematical bold script capital s
U+1D4E3	𝒯	𝒯	𝒯	𝒯		𝒯		𝒯		𝒯	𝒯	\mbfscrT	mathematical bold script capital t
U+1D4E4	𝒰	𝒰	𝒰	𝒰		𝒰		𝒰		𝒰	𝒰	\mbfscrU	mathematical bold script capital u
U+1D4E5	𝒱	𝒱	𝒱	𝒱		𝒱		𝒱		𝒱	𝒱	\mbfscrV	mathematical bold script capital v
U+1D4E6	𝒲	𝒲	𝒲	𝒲	𝒲		𝒲			𝒲	𝒲	\mbfscrW	mathematical bold script capital w
U+1D4E7	𝒳	𝒳	𝒳	𝒳		𝒳		𝒳		𝒳	𝒳	\mbfscrX	mathematical bold script capital x
U+1D4E8	𝒴	𝒴	𝒴	𝒴		𝒴		𝒴		𝒴	𝒴	\mbfscrY	mathematical bold script capital y
U+1D4E9	𝒵	𝒵	𝒵	𝒵		𝒵		𝒵		𝒵	𝒵	\mbfscrZ	mathematical bold script capital z

13.2.10 Bold script, Latin, lowercase

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
U+1D4EA	𝒶	𝒶	𝒶	𝒶		𝒶						\mbfscra	mathematical bold script small a
U+1D4EB	𝒷	𝒷	𝒷	𝒷		𝒷						\mbfscrb	mathematical bold script small b
U+1D4EC	𝒸	𝒸	𝒸	𝒸		𝒸						\mbfscrc	mathematical bold script small c
U+1D4ED	𝒹	𝒹	𝒹	𝒹		𝒹						\mbfscrd	mathematical bold script small d
U+1D4EE	ℯ	ℯ	ℯ	ℯ		ℯ						\mbfscre	mathematical bold script small e
U+1D4EF	𝒻	𝒻	𝒻	𝒻		𝒻						\mbfscrf	mathematical bold script small f
U+1D4F0	ℊ	ℊ	ℊ	ℊ		ℊ						\mbfscrg	mathematical bold script small g
U+1D4F1	𝒽	𝒽	𝒽	𝒽		𝒽						\mbfscrh	mathematical bold script small h
U+1D4F2	𝒾	𝒾	𝒾	𝒾		𝒾						\mbfscri	mathematical bold script small i
U+1D4F3	𝒿	𝒿	𝒿	𝒿		𝒿						\mbfscrj	mathematical bold script small j

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
U+1D4F4	𝓀	𝓀	𝓀	𝓀		𝓀						\mbfscrk	mathematical bold script small k
U+1D4F5	𝓁	𝓁	𝓁	𝓁		𝓁						\mbfscrl	mathematical bold script small l
U+1D4F6	𝓂	𝓂	𝓂	𝓂		𝓂						\mbfscrm	mathematical bold script small m
U+1D4F7	𝓃	𝓃	𝓃	𝓃		𝓃						\mbfscrn	mathematical bold script small n
U+1D4F8	𝑜	𝑜	𝑜	𝑜		𝑜						\mbfscro	mathematical bold script small o
U+1D4F9	𝓅	𝓅	𝓅	𝓅		𝓅						\mbfscrp	mathematical bold script small p
U+1D4FA	𝓆	𝓆	𝓆	𝓆		𝓆						\mbfscrq	mathematical bold script small q
U+1D4FB	𝓇	𝓇	𝓇	𝓇		𝓇						\mbfscrr	mathematical bold script small r
U+1D4FC	𝓈	𝓈	𝓈	𝓈		𝓈						\mbfscrs	mathematical bold script small s
U+1D4FD	𝓉	𝓉	𝓉	𝓉		𝓉						\mbfscrt	mathematical bold script small t
U+1D4FE	𝓊	𝓊	𝓊	𝓊		𝓊						\mbfscru	mathematical bold script small u
U+1D4FF	𝓋	𝓋	𝓋	𝓋		𝓋						\mbfscrv	mathematical bold script small v
U+1D500	𝓌	𝓌	𝓌	𝓌		𝓌						\mbfscrw	mathematical bold script small w
U+1D501	𝓍	𝓍	𝓍	𝓍		𝓍						\mbfscrx	mathematical bold script small x
U+1D502	𝓎	𝓎	𝓎	𝓎		𝓎						\mbfscry	mathematical bold script small y
U+1D503	𝓏	𝓏	𝓏	𝓏		𝓏						\mbfscrz	mathematical bold script small z

13.2.11 Bold fraktur, Latin, uppercase

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

13.2.12 Bold fraktur, Latin, lowercase

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
U+1D586	𝖆	𝖆	𝖆	𝖆	𝖆		𝖆		𝖆	𝖆	𝖆	\mbffraka	mathematical bold fraktur small a
U+1D587	𝖇	𝖇	𝖇	𝖇	𝖇		𝖇		𝖇	𝖇	𝖇	\mbffrakb	mathematical bold fraktur small b
U+1D588	𝖈	𝖈	𝖈	𝖈	𝖈		𝖈		𝖈	𝖈	𝖈	\mbffrakc	mathematical bold fraktur small c
U+1D589	𝖉	𝖉	𝖉	𝖉	𝖉		𝖉		𝖉	𝖉	𝖉	\mbffrakd	mathematical bold fraktur small d
U+1D58A	𝖊	𝖊	𝖊	𝖊	𝖊		𝖊		𝖊	𝖊	𝖊	\mbffrake	mathematical bold fraktur small e
U+1D58B	𝖋	𝖋	𝖋	𝖋	𝖋		𝖋		𝖋	𝖋	𝖋	\mbffrakf	mathematical bold fraktur small f
U+1D58C	𝖌	𝖌	𝖌	𝖌	𝖌		𝖌		𝖌	𝖌	𝖌	\mbffrakg	mathematical bold fraktur small g
U+1D58D	𝖍	𝖍	𝖍	𝖍	𝖍		𝖍		𝖍	𝖍	𝖍	\mbffrakh	mathematical bold fraktur small h
U+1D58E	𝖎	𝖎	𝖎	𝖎	𝖎		𝖎		𝖎	𝖎	𝖎	\mbffraki	mathematical bold fraktur small i
U+1D58F	𝖏	𝖏	𝖏	𝖏	𝖏		𝖏		𝖏	𝖏	𝖏	\mbffrakj	mathematical bold fraktur small j
U+1D590	𝖐	𝖐	𝖐	𝖐	𝖐		𝖐		𝖐	𝖐	𝖐	\mbffrakk	mathematical bold fraktur small k
U+1D591	𝖑	𝖑	𝖑	𝖑	𝖑		𝖑		𝖑	𝖑	𝖑	\mbffrakl	mathematical bold fraktur small l
U+1D592	𝖒	𝖒	𝖒	𝖒	𝖒		𝖒		𝖒	𝖒	𝖒	\mbffrakm	mathematical bold fraktur small m
U+1D593	𝖓	𝖓	𝖓	𝖓	𝖓		𝖓		𝖓	𝖓	𝖓	\mbffrakn	mathematical bold fraktur small n
U+1D594	𝖔	𝖔	𝖔	𝖔	𝖔		𝖔		𝖔	𝖔	𝖔	\mbffrako	mathematical bold fraktur small o
U+1D595	𝖕	𝖕	𝖕	𝖕	𝖕		𝖕		𝖕	𝖕	𝖕	\mbffrakp	mathematical bold fraktur small p
U+1D596	𝖖	𝖖	𝖖	𝖖	𝖖		𝖖		𝖖	𝖖	𝖖	\mbffrakq	mathematical bold fraktur small q
U+1D597	𝖗	𝖗	𝖗	𝖗	𝖗		𝖗		𝖗	𝖗	𝖗	\mbffrakr	mathematical bold fraktur small r
U+1D598	𝖘	𝖘	𝖘	𝖘	𝖘		𝖘		𝖘	𝖘	𝖘	\mbffraks	mathematical bold fraktur small s
U+1D599	𝖙	𝖙	𝖙	𝖙	𝖙		𝖙		𝖙	𝖙	𝖙	\mbffrakt	mathematical bold fraktur small t
U+1D59A	𝖚	𝖚	𝖚	𝖚	𝖚		𝖚		𝖚	𝖚	𝖚	\mbffraku	mathematical bold fraktur small u
U+1D59B	𝖛	𝖛	𝖛	𝖛	𝖛		𝖛		𝖛	𝖛	𝖛	\mbffrakv	mathematical bold fraktur small v
U+1D59C	𝖜	𝖜	𝖜	𝖜	𝖜		𝖜		𝖜	𝖜	𝖜	\mbffrakw	mathematical bold fraktur small w
U+1D59D	𝖝	𝖝	𝖝	𝖝	𝖝		𝖝		𝖝	𝖝	𝖝	\mbffrakx	mathematical bold fraktur small x
U+1D59E	𝖞	𝖞	𝖞	𝖞	𝖞		𝖞		𝖞	𝖞	𝖞	\mbffraky	mathematical bold fraktur small y
U+1D59F	𝖟	𝖟	𝖟	𝖟	𝖟		𝖟		𝖟	𝖟	𝖟	\mbffrakz	mathematical bold fraktur small z

13.2.13 Bold sans serif, Latin, uppercase

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
U+1D5D4	A	A	A	A	A		A		A	A	A	\mbfsansA	mathematical sans-serif bold capital a
U+1D5D5	B	B	B	B	B		B		B	B	B	\mbfsansB	mathematical sans-serif bold capital b
U+1D5D6	C	C	C	C	C		C		C	C	C	\mbfsansC	mathematical sans-serif bold capital c
U+1D5D7	D	D	D	D	D		D		D	D	D	\mbfsansD	mathematical sans-serif bold capital d
U+1D5D8	E	E	E	E	E		E		E	E	E	\mbfsansE	mathematical sans-serif bold capital e
U+1D5D9	F	F	F	F	F		F		F	F	F	\mbfsansF	mathematical sans-serif bold capital f
U+1D5DA	G	G	G	G	G		G		G	G	G	\mbfsansG	mathematical sans-serif bold capital g
U+1D5DB	H	H	H	H	H		H		H	H	H	\mbfsansH	mathematical sans-serif bold capital h
U+1D5DC	I	I	I	I	I		I		I	I	I	\mbfsansI	mathematical sans-serif bold capital i
U+1D5DD	J	J	J	J	J		J		J	J	J	\mbfsansJ	mathematical sans-serif bold capital j

USV	L X S P D F N H E C R	Macro	Description
U+1D5DE	K K K K K K K K K	\mbfsansK	mathematical sans-serif bold capital k
U+1D5DF	L L L L L L L L L	\mbfsansL	mathematical sans-serif bold capital l
U+1D5E0	M M M M M M M M M	\mbfsansM	mathematical sans-serif bold capital m
U+1D5E1	N N N N N N N N N	\mbfsansN	mathematical sans-serif bold capital n
U+1D5E2	O O O O O O O O O	\mbfsansO	mathematical sans-serif bold capital o
U+1D5E3	P P P P P P P P P	\mbfsansP	mathematical sans-serif bold capital p
U+1D5E4	Q Q Q Q Q Q Q Q Q	\mbfsansQ	mathematical sans-serif bold capital q
U+1D5E5	R R R R R R R R R	\mbfsansR	mathematical sans-serif bold capital r
U+1D5E6	S S S S S S S S S	\mbfsansS	mathematical sans-serif bold capital s
U+1D5E7	T T T T T T T T T	\mbfsansT	mathematical sans-serif bold capital t
U+1D5E8	U U U U U U U U U	\mbfsansU	mathematical sans-serif bold capital u
U+1D5E9	V V V V V V V V V	\mbfsansV	mathematical sans-serif bold capital v
U+1D5EA	W W W W W W W W W	\mbfsansW	mathematical sans-serif bold capital w
U+1D5EB	X X X X X X X X X	\mbfsansX	mathematical sans-serif bold capital x
U+1D5EC	Y Y Y Y Y Y Y Y Y	\mbfsansY	mathematical sans-serif bold capital y
U+1D5ED	Z Z Z Z Z Z Z Z Z	\mbfsansZ	mathematical sans-serif bold capital z

13.2.14 Bold sans serif, Latin, lowercase

USV	L X S P D F N H E C R	Macro	Description
U+1D5EE	a a a a a a a a a	\mbfsansa	mathematical sans-serif bold small a
U+1D5EF	b b b b b b b b b	\mbfsansb	mathematical sans-serif bold small b
U+1D5F0	c c c c c c c c c	\mbfsansc	mathematical sans-serif bold small c
U+1D5F1	d d d d d d d d d	\mbfsansd	mathematical sans-serif bold small d
U+1D5F2	e e e e e e e e e	\mbfsanse	mathematical sans-serif bold small e
U+1D5F3	f f f f f f f f f	\mbfsansf	mathematical sans-serif bold small f
U+1D5F4	g g g g g g g g g	\mbfsansg	mathematical sans-serif bold small g
U+1D5F5	h h h h h h h h h	\mbfsansh	mathematical sans-serif bold small h
U+1D5F6	i i i i i i i i i	\mbfsansi	mathematical sans-serif bold small i
U+1D5F7	j j j j j j j j j	\mbfsansj	mathematical sans-serif bold small j
U+1D5F8	k k k k k k k k k	\mbfsansk	mathematical sans-serif bold small k
U+1D5F9	l l l l l l l l l	\mbfsansl	mathematical sans-serif bold small l
U+1D5FA	m m m m m m m m m	\mbfsansm	mathematical sans-serif bold small m
U+1D5FB	n n n n n n n n n	\mbfsansn	mathematical sans-serif bold small n
U+1D5FC	o o o o o o o o o	\mbfsanso	mathematical sans-serif bold small o
U+1D5FD	p p p p p p p p p	\mbfsansp	mathematical sans-serif bold small p
U+1D5FE	q q q q q q q q q	\mbfsansq	mathematical sans-serif bold small q
U+1D5FF	r r r r r r r r r	\mbfsansr	mathematical sans-serif bold small r
U+1D600	s s s s s s s s s	\mbfsanss	mathematical sans-serif bold small s
U+1D601	t t t t t t t t t	\mbfsanst	mathematical sans-serif bold small t
U+1D602	u u u u u u u u u	\mbfsansu	mathematical sans-serif bold small u
U+1D603	v v v v v v v v v	\mbfsansv	mathematical sans-serif bold small v
U+1D604	w w w w w w w w w	\mbfsansw	mathematical sans-serif bold small w
U+1D605	x x x x x x x x x	\mbfsansx	mathematical sans-serif bold small x
U+1D606	y y y y y y y y y	\mbfsansy	mathematical sans-serif bold small y
U+1D607	z z z z z z z z z	\mbfsansz	mathematical sans-serif bold small z

13.2.15 Bold italic sans serif, Latin, uppercase

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
U+1D63C	A	A	A	A	A		A		A	A	A	\mbfitsansA	mathematical sans-serif bold italic capital a
U+1D63D	B	B	B	B	B		B		B	B	B	\mbfitsansB	mathematical sans-serif bold italic capital b
U+1D63E	C	C	C	C	C		C		C	C	C	\mbfitsansC	mathematical sans-serif bold italic capital c
U+1D63F	D	D	D	D	D		D		D	D	D	\mbfitsansD	mathematical sans-serif bold italic capital d
U+1D640	E	E	E	E	E		E		E	E	E	\mbfitsansE	mathematical sans-serif bold italic capital e
U+1D641	F	F	F	F	F		F		F	F	F	\mbfitsansF	mathematical sans-serif bold italic capital f
U+1D642	G	G	G	G	G		G		G	G	G	\mbfitsansG	mathematical sans-serif bold italic capital g
U+1D643	H	H	H	H	H		H		H	H	H	\mbfitsansH	mathematical sans-serif bold italic capital h
U+1D644	I	I	I	I	I		I		I	I	I	\mbfitsansI	mathematical sans-serif bold italic capital i
U+1D645	J	J	J	J	J		J		J	J	J	\mbfitsansJ	mathematical sans-serif bold italic capital j
U+1D646	K	K	K	K	K		K		K	K	K	\mbfitsansK	mathematical sans-serif bold italic capital k
U+1D647	L	L	L	L	L		L		L	L	L	\mbfitsansL	mathematical sans-serif bold italic capital l
U+1D648	M	M	M	M	M		M		M	M	M	\mbfitsansM	mathematical sans-serif bold italic capital m
U+1D649	N	N	N	N	N		N		N	N	N	\mbfitsansN	mathematical sans-serif bold italic capital n
U+1D64A	O	O	O	O	O		O		O	O	O	\mbfitsansO	mathematical sans-serif bold italic capital o
U+1D64B	P	P	P	P	P		P		P	P	P	\mbfitsansP	mathematical sans-serif bold italic capital p
U+1D64C	Q	Q	Q	Q	Q		Q		Q	Q	Q	\mbfitsansQ	mathematical sans-serif bold italic capital q
U+1D64D	R	R	R	R	R		R		R	R	R	\mbfitsansR	mathematical sans-serif bold italic capital r
U+1D64E	S	S	S	S	S		S		S	S	S	\mbfitsansS	mathematical sans-serif bold italic capital s
U+1D64F	T	T	T	T	T		T		T	T	T	\mbfitsansT	mathematical sans-serif bold italic capital t
U+1D650	U	U	U	U	U		U		U	U	U	\mbfitsansU	mathematical sans-serif bold italic capital u
U+1D651	V	V	V	V	V		V		V	V	V	\mbfitsansV	mathematical sans-serif bold italic capital v
U+1D652	W	W	W	W	W		W		W	W	W	\mbfitsansW	mathematical sans-serif bold italic capital w
U+1D653	X	X	X	X	X		X		X	X	X	\mbfitsansX	mathematical sans-serif bold italic capital x
U+1D654	Y	Y	Y	Y	Y		Y		Y	Y	Y	\mbfitsansY	mathematical sans-serif bold italic capital y
U+1D655	Z	Z	Z	Z	Z		Z		Z	Z	Z	\mbfitsansZ	mathematical sans-serif bold italic capital z

13.2.16 Bold italic sans serif, Latin, lowercase

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
U+1D656	a	a	a	a	a		a		a	a	a	\mbfitsansa	mathematical sans-serif bold italic small a
U+1D657	b	b	b	b	b		b		b	b	b	\mbfitsansb	mathematical sans-serif bold italic small b
U+1D658	c	c	c	c	c		c		c	c	c	\mbfitsansc	mathematical sans-serif bold italic small c
U+1D659	d	d	d	d	d		d		d	d	d	\mbfitsansd	mathematical sans-serif bold italic small d
U+1D65A	e	e	e	e	e		e		e	e	e	\mbfitsanse	mathematical sans-serif bold italic small e
U+1D65B	f	f	f	f	f		f		f	f	f	\mbfitsansf	mathematical sans-serif bold italic small f
U+1D65C	g	g	g	g	g		g		g	g	g	\mbfitsansg	mathematical sans-serif bold italic small g
U+1D65D	h	h	h	h	h		h		h	h	h	\mbfitsansh	mathematical sans-serif bold italic small h
U+1D65E	i	i	i	i	i		i		i	i	i	\mbfitsansi	mathematical sans-serif bold italic small i
U+1D65F	j	j	j	j	j		j		j	j	j	\mbfitsansj	mathematical sans-serif bold italic small j
U+1D660	k	k	k	k	k		k		k	k	k	\mbfitsansk	mathematical sans-serif bold italic small k
U+1D661	l	l	l	l	l		l		l	l	l	\mbfitsansl	mathematical sans-serif bold italic small l
U+1D662	m	m	m	m	m		m		m	m	m	\mbfitsansm	mathematical sans-serif bold italic small m
U+1D663	n	n	n	n	n		n		n	n	n	\mbfitsansn	mathematical sans-serif bold italic small n

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
U+1D664	*o*	*o*	*o*	*o*	*O*	*o*			*o*	*o*	*o*	\mbfitsanso	mathematical sans-serif bold italic small o
U+1D665	*p*	*p*	*p*	*p*	*p*	*p*			*p*	*p*	*p*	\mbfitsansp	mathematical sans-serif bold italic small p
U+1D666	*q*	*q*	*q*	*q*	*q*	*q*			*q*	*q*	*q*	\mbfitsansq	mathematical sans-serif bold italic small q
U+1D667	*r*	*r*	*r*	*r*	*r*	*r*			*r*	*r*	*r*	\mbfitsansr	mathematical sans-serif bold italic small r
U+1D668	*s*	*s*	*s*	*s*	*S*	*s*			*s*	*s*	*s*	\mbfitsanss	mathematical sans-serif bold italic small s
U+1D669	*t*	*t*	*t*	*t*	*t*	*t*			*t*	*t*	*t*	\mbfitsanst	mathematical sans-serif bold italic small t
U+1D66A	*u*	*u*	*u*	*u*	*u*	*u*			*u*	*u*	*u*	\mbfitsansu	mathematical sans-serif bold italic small u
U+1D66B	*v*	*v*	*v*	*v*	*v*	*v*			*v*	*v*	*v*	\mbfitsansv	mathematical sans-serif bold italic small v
U+1D66C	*w*	*w*	*w*	*w*	*W*	*w*			*w*	*w*	*w*	\mbfitsansw	mathematical sans-serif bold italic small w
U+1D66D	*x*	*x*	*x*	*x*	*X*	*x*			*x*	*x*	*x*	\mbfitsansx	mathematical sans-serif bold italic small x
U+1D66E	*y*	*y*	*y*	*y*	*y*	*y*			*y*	*y*	*y*	\mbfitsansy	mathematical sans-serif bold italic small y
U+1D66F	*z*	*z*	*z*	*z*	*z*	*z*			*z*	*z*	*z*	\mbfitsansz	mathematical sans-serif bold italic small z

13.2.17 Bold sans serif Greek, uppercase

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
U+1D756	Α	Α	Α	Α	Α	Α			Α	Α	Α	\mbfsansAlpha	mathematical sans-serif bold capital alpha
U+1D757	Β	Β	Β	Β	Β	Β			Β	Β	Β	\mbfsansBeta	mathematical sans-serif bold capital beta
U+1D758	Γ	Γ	Γ	Γ	Γ	Γ			Γ	Γ	Γ	\mbfsansGamma	mathematical sans-serif bold capital gamma
U+1D759	Δ	Δ	Δ	Δ	Δ	Δ			Δ	Δ	Δ	\mbfsansDelta	mathematical sans-serif bold capital delta
U+1D75A	Ε	Ε	Ε	Ε	Ε	Ε			Ε	Ε	Ε	\mbfsansEpsilon	mathematical sans-serif bold capital epsilon
U+1D75B	Ζ	Ζ	Ζ	Ζ	Ζ	Ζ			Ζ	Ζ	Ζ	\mbfsansZeta	mathematical sans-serif bold capital zeta
U+1D75C	Η	Η	Η	Η	Η	Η			Η	Η	Η	\mbfsansEta	mathematical sans-serif bold capital eta
U+1D75D	Θ	Θ	Θ	Θ	Θ	Θ			Θ	Θ	Θ	\mbfsansTheta	mathematical sans-serif bold capital theta
U+1D75E	Ι	Ι	Ι	Ι	Ι	Ι			Ι	Ι	Ι	\mbfsansIota	mathematical sans-serif bold capital iota
U+1D75F	Κ	Κ	Κ	Κ	Κ	Κ			Κ	Κ	Κ	\mbfsansKappa	mathematical sans-serif bold capital kappa
U+1D760	Λ	Λ	Λ	Λ	Λ	Λ			Λ	Λ	Λ	\mbfsansLambda	mathematical sans-serif bold capital lambda
U+1D761	Μ	Μ	Μ	Μ	Μ	Μ			Μ	Μ	Μ	\mbfsansMu	mathematical sans-serif bold capital mu
U+1D762	Ν	Ν	Ν	Ν	Ν	Ν			Ν	Ν	Ν	\mbfsansNu	mathematical sans-serif bold capital nu
U+1D763	Ξ	Ξ	Ξ	Ξ	Ξ	Ξ			Ξ	Ξ	Ξ	\mbfsansXi	mathematical sans-serif bold capital xi
U+1D764	Ο	Ο	Ο	Ο	Ο	Ο			Ο	Ο	Ο	\mbfsansOmicron	mathematical sans-serif bold capital omicron
U+1D765	Π	Π	Π	Π	Π	Π			Π	Π	Π	\mbfsansPi	mathematical sans-serif bold capital pi
U+1D766	Ρ	Ρ	Ρ	Ρ	Ρ	Ρ			Ρ	Ρ	Ρ	\mbfsansRho	mathematical sans-serif bold capital rho
U+1D767	Θ	Θ	Θ	Θ	Θ	Θ			Θ	Θ	Θ	\mbfsansvarTheta	mathematical sans-serif bold capital theta symbol
U+1D768	Σ	Σ	Σ	Σ	Σ	Σ			Σ	Σ	Σ	\mbfsansSigma	mathematical sans-serif bold capital sigma
U+1D769	Τ	Τ	Τ	Τ	Τ	Τ			Τ	Τ	Τ	\mbfsansTau	mathematical sans-serif bold capital tau
U+1D76A	Υ	Υ	Υ	Υ	Υ	Υ			Υ	Υ	Υ	\mbfsansUpsilon	mathematical sans-serif bold capital upsilon
U+1D76B	Φ	Φ	Φ	Φ	Φ	Φ			Φ	Φ	Φ	\mbfsansPhi	mathematical sans-serif bold capital phi
U+1D76C	Χ	Χ	Χ	Χ	Χ	Χ			Χ	Χ	Χ	\mbfsansChi	mathematical sans-serif bold capital chi
U+1D76D	Ψ	Ψ	Ψ	Ψ	Ψ	Ψ			Ψ	Ψ	Ψ	\mbfsansPsi	mathematical sans-serif bold capital psi
U+1D76E	Ω	Ω	Ω	Ω	Ω	Ω			Ω	Ω	Ω	\mbfsansOmega	mathematical sans-serif bold capital omega

13.2.18 Bold sans serif Greek, lowercase

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
U+1D770	α	α	α	α	α		α		α	α	α	\mbfsansalpha	mathematical sans-serif bold small alpha
U+1D771	β	β	β	β	β		β		β	β	β	\mbfsansbeta	mathematical sans-serif bold small beta
U+1D772	γ	γ	γ	γ	γ		γ		γ	γ	γ	\mbfsansgamma	mathematical sans-serif bold small gamma
U+1D773	δ	δ	δ	δ	δ		δ		δ	δ	δ	\mbfsansdelta	mathematical sans-serif bold small delta
U+1D774	ε	ε	ε	ε	ε		ε		ε	ε	ε	\mbfsansvarepsilon	mathematical sans-serif bold small varepsilon
U+1D775	ζ	ζ	ζ	ζ	ζ		ζ		ζ	ζ	ζ	\mbfsanszeta	mathematical sans-serif bold small zeta
U+1D776	η	η	η	η	η		η		η	η	η	\mbfsanseta	mathematical sans-serif bold small eta
U+1D777	θ	θ	θ	θ	θ		θ		θ	θ	θ	\mbfsanstheta	mathematical sans-serif bold small theta
U+1D778	ι	ι	ι	ι	ι		ι		ι	ι	ι	\mbfsansiota	mathematical sans-serif bold small iota
U+1D779	κ	κ	κ	κ	κ		κ		κ	κ	κ	\mbfsanskappa	mathematical sans-serif bold small kappa
U+1D77A	λ	λ	λ	λ	λ		λ		λ	λ	λ	\mbfsanslambda	mathematical sans-serif bold small lambda
U+1D77B	μ	μ	μ	μ	μ		μ		μ	μ	μ	\mbfsansmu	mathematical sans-serif bold small mu
U+1D77C	ν	ν	ν	ν	ν		ν		ν	ν	ν	\mbfsansnu	mathematical sans-serif bold small nu
U+1D77D	ξ	ξ	ξ	ξ	ξ		ξ		ξ	ξ	ξ	\mbfsansxi	mathematical sans-serif bold small xi
U+1D77E	ο	ο	ο	ο	ο		ο		ο	ο	ο	\mbfsansomicron	mathematical sans-serif bold small omicron
U+1D77F	π	π	π	π	π		π		π	π	π	\mbfsanspi	mathematical sans-serif bold small pi
U+1D780	ρ	ρ	ρ	ρ	ρ		ρ		ρ	ρ	ρ	\mbfsansrho	mathematical sans-serif bold small rho
U+1D781	ς	ς	ς	ς	ς		ς		ς	ς	ς	\mbfsansvarsigma	mathematical sans-serif bold small final sigma
U+1D782	σ	σ	σ	σ	σ		σ		σ	σ	σ	\mbfsanssigma	mathematical sans-serif bold small sigma
U+1D783	τ	τ	τ	τ	τ		τ		τ	τ	τ	\mbfsanstau	mathematical sans-serif bold small tau
U+1D784	υ	υ	υ	υ	υ		υ		υ	υ	υ	\mbfsansupsilon	mathematical sans-serif bold small upsilon
U+1D785	φ	φ	φ	φ	φ		φ		φ	φ	φ	\mbfsansvarphi	mathematical sans-serif bold small phi
U+1D786	χ	χ	χ	χ	χ		χ		χ	χ	χ	\mbfsanschi	mathematical sans-serif bold small chi
U+1D787	ψ	ψ	ψ	ψ	ψ		ψ		ψ	ψ	ψ	\mbfsanspsi	mathematical sans-serif bold small psi
U+1D788	ω	ω	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		ϵ	ϵ	ϵ	\mbfsansepsilon	mathematical sans-serif bold varepsilon symbol
U+1D78B	ϑ	ϑ	ϑ	ϑ	ϑ		ϑ		ϑ	ϑ	ϑ	\mbfsansvartheta	mathematical sans-serif bold theta symbol
U+1D78C	ϰ	ϰ	ϰ	ϰ	ϰ		ϰ		ϰ	ϰ	ϰ	\mbfsansvarkappa	mathematical sans-serif bold kappa symbol
U+1D78D	ϕ	ϕ	ϕ	ϕ	ϕ		ϕ		ϕ	ϕ	ϕ	\mbfsansphi	mathematical sans-serif bold phi symbol
U+1D78E	ϱ	ϱ	ϱ	ϱ	ϱ		ϱ		ϱ	ϱ	ϱ	\mbfsansvarrho	mathematical sans-serif bold rho symbol
U+1D78F	ϖ	ϖ	ϖ	ϖ	ϖ		ϖ		ϖ	ϖ	ϖ	\mbfsansvarpi	mathematical sans-serif bold pi symbol

13.2.19 Bold italic sans serif Greek, uppercase

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
U+1D790	*A*	*A*	*A*	*A*	*A*		*A*		*A*	*A*	*A*	\mbfitsansAlpha	mathematical sans-serif bold italic capital alpha
U+1D791	*B*	*B*	*B*	*B*	*B*		*B*		*B*	*B*	*B*	\mbfitsansBeta	mathematical sans-serif bold italic capital beta
U+1D792	*Γ*	*Γ*	*Γ*	*Γ*	*Γ*		*Γ*		*Γ*	*Γ*	*Γ*	\mbfitsansGamma	mathematical sans-serif bold italic capital gamma
U+1D793	*Δ*	*Δ*	*Δ*	*Δ*	*Δ*		*Δ*		*Δ*	*Δ*	*Δ*	\mbfitsansDelta	mathematical sans-serif bold italic capital delta
U+1D794	*E*	*E*	*E*	*E*	*E*		*E*		*E*	*E*	*E*	\mbfitsansEpsilon	mathematical sans-serif bold italic capital epsilon
U+1D795	*Z*	*Z*	*Z*	*Z*	*Z*		*Z*		*Z*	*Z*	*Z*	\mbfitsansZeta	mathematical sans-serif bold italic capital zeta
U+1D796	*H*	*H*	*H*	*H*	*H*		*H*		*H*	*H*	*H*	\mbfitsansEta	mathematical sans-serif bold italic capital eta
U+1D797	*Θ*	*Θ*	*Θ*	*Θ*	*Θ*		*Θ*		*Θ*	*Θ*	*Θ*	\mbfitsansTheta	mathematical sans-serif bold italic capital theta
U+1D798	*I*	*I*	*I*	*I*	*I*		*I*		*I*	*I*	*I*	\mbfitsansIota	mathematical sans-serif bold italic capital iota
U+1D799	*K*	*K*	*K*	*K*	*K*		*K*		*K*	*K*	*K*	\mbfitsansKappa	mathematical sans-serif bold italic capital kappa
U+1D79A	*Λ*	*Λ*	*Λ*	*Λ*	*Λ*		*Λ*		*Λ*	*Λ*	*Λ*	\mbfitsansLambda	mathematical sans-serif bold italic capital lambda

USV	L X S P D F N H E C R	Macro	Description
U+1D79B	*M M M M M* *M* *M M M*	\mbfitsansMu	mathematical sans-serif bold italic capital mu
U+1D79C	*N N N N N* *N* *N N N*	\mbfitsansNu	mathematical sans-serif bold italic capital nu
U+1D79D	*Ξ Ξ Ξ Ξ Ξ* *Ξ* *Ξ Ξ Ξ*	\mbfitsansXi	mathematical sans-serif bold italic capital xi
U+1D79E	*O O O O O* *O* *O O O*	\mbfitsansOmicron	mathematical sans-serif bold italic capital omicron
U+1D79F	*Π Π Π Π Π* *Π* *Π Π Π*	\mbfitsansPi	mathematical sans-serif bold italic capital pi
U+1D7A0	*P P P P P* *P* *P P P*	\mbfitsansRho	mathematical sans-serif bold italic capital rho
U+1D7A1	*Θ Θ Θ Θ Θ* *Θ* *Θ Θ*	\mbfitsansvarTheta	mathematical sans-serif bold italic capital theta symbol
U+1D7A2	*Σ Σ Σ Σ Σ* *Σ* *Σ Σ*	\mbfitsansSigma	mathematical sans-serif bold italic capital sigma
U+1D7A3	*T T T T T* *T* *T T T*	\mbfitsansTau	mathematical sans-serif bold italic capital tau
U+1D7A4	*Υ Υ Υ Υ Υ* *Υ* *Υ Υ Υ*	\mbfitsansUpsilon	mathematical sans-serif bold italic capital upsilon
U+1D7A5	*Φ Φ Φ Φ Φ* *Φ* *Φ Φ Φ*	\mbfitsansPhi	mathematical sans-serif bold italic capital phi
U+1D7A6	*X X X X X* *X* *X X X*	\mbfitsansChi	mathematical sans-serif bold italic capital chi
U+1D7A7	*Ψ Ψ Ψ Ψ Ψ* *Ψ* *Ψ Ψ Ψ*	\mbfitsansPsi	mathematical sans-serif bold italic capital psi
U+1D7A8	*Ω Ω Ω Ω Ω* *Ω* *Ω Ω Ω*	\mbfitsansOmega	mathematical sans-serif bold italic capital omega

13.2.20 Bold italic sans serif Greek, lowercase

USV	L X S P D F N H E C R	Macro	Description
U+1D7AA	*α α α α α* *α* *α α α*	\mbfitsansalpha	mathematical sans-serif bold italic small alpha
U+1D7AB	*β β β β β* *β* *β β β*	\mbfitsansbeta	mathematical sans-serif bold italic small beta
U+1D7AC	*γ γ γ γ γ* *γ* *γ γ γ*	\mbfitsansgamma	mathematical sans-serif bold italic small gamma
U+1D7AD	*δ δ δ δ δ* *δ* *δ δ δ*	\mbfitsansdelta	mathematical sans-serif bold italic small delta
U+1D7AE	*ε ε ε ε ε* *ε* *ε ε ε*	\mbfitsansvarepsilon	mathematical sans-serif bold italic small varepsilon
U+1D7AF	*ζ ζ ζ ζ ζ* *ζ* *ζ ζ ζ*	\mbfitsanszeta	mathematical sans-serif bold italic small zeta
U+1D7B0	*η η η η η* *η* *η η η*	\mbfitsanseta	mathematical sans-serif bold italic small eta
U+1D7B1	*θ θ θ θ θ* *θ* *θ θ θ*	\mbfitsanstheta	mathematical sans-serif bold italic small theta
U+1D7B2	*ι ι ι ι ι* *ι* *ι ι ι*	\mbfitsansiota	mathematical sans-serif bold italic small iota
U+1D7B3	*κ κ κ κ κ* *κ* *κ κ κ*	\mbfitsanskappa	mathematical sans-serif bold italic small kappa
U+1D7B4	*λ λ λ λ λ* *λ* *λ λ λ*	\mbfitsanslambda	mathematical sans-serif bold italic small lambda
U+1D7B5	*μ μ μ μ μ* *μ* *μ μ μ*	\mbfitsansmu	mathematical sans-serif bold italic small mu
U+1D7B6	*ν ν ν ν ν* *ν* *ν ν ν*	\mbfitsansnu	mathematical sans-serif bold italic small nu
U+1D7B7	*ξ ξ ξ ξ ξ* *ξ* *ξ ξ ξ*	\mbfitsansxi	mathematical sans-serif bold italic small xi
U+1D7B8	*o o o o o* *o* *o o o*	\mbfitsansomicron	mathematical sans-serif bold italic small omicron
U+1D7B9	*π π π π π* *π* *π π π*	\mbfitsanspi	mathematical sans-serif bold italic small pi
U+1D7BA	*ρ ρ ρ ρ ρ* *ρ* *ρ ρ ρ*	\mbfitsansrho	mathematical sans-serif bold italic small rho
U+1D7BB	*ς ς ς ς ς* *ς* *ς ς ς*	\mbfitsansvarsigma	mathematical sans-serif bold italic small final sigma
U+1D7BC	*σ σ σ σ σ* *σ* *σ σ σ*	\mbfitsanssigma	mathematical sans-serif bold italic small sigma
U+1D7BD	*τ τ τ τ τ* *τ* *τ τ τ*	\mbfitsanstau	mathematical sans-serif bold italic small tau
U+1D7BE	*υ υ υ υ υ* *υ* *υ υ υ*	\mbfitsansupsilon	mathematical sans-serif bold italic small upsilon
U+1D7BF	*φ φ φ φ φ* *φ* *φ φ φ*	\mbfitsansvarphi	mathematical sans-serif bold italic small phi
U+1D7C0	*χ χ χ χ χ* *χ* *χ χ χ*	\mbfitsanschi	mathematical sans-serif bold italic small chi
U+1D7C1	*ψ ψ ψ ψ ψ* *ψ* *ψ ψ ψ*	\mbfitsanspsi	mathematical sans-serif bold italic small psi
U+1D7C2	*ω ω ω 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* *ϵ* *ϵ ϵ ϵ*	\mbfitsansepsilon	mathematical sans-serif bold italic varepsilon symbol
U+1D7C5	*ϑ ϑ ϑ ϑ ϑ* *ϑ* *ϑ ϑ ϑ*	\mbfitsansvartheta	mathematical sans-serif bold italic theta symbol
U+1D7C6	*ϰ ϰ ϰ ϰ ϰ* *ϰ* *ϰ ϰ ϰ*	\mbfitsansvarkappa	mathematical sans-serif bold italic kappa symbol

USV	L X S P D F N H E C R	Macro	Description
U+1D7C7	𝞿 𝞿 𝞿 𝞿 𝞿 𝞿 𝞿 𝞿 𝞿	`\mbfitsansphi`	mathematical sans-serif bold italic phi symbol
U+1D7C8	𝞺 𝞺 𝞺 𝞺 𝞺 𝞺 𝞺 𝞺 𝞺	`\mbfitsansvarrho`	mathematical sans-serif bold italic rho symbol
U+1D7C9	𝞿 𝞿 𝞿 𝞿 𝞿 𝞿 𝞿 𝞿 ω	`\mbfitsansvarpi`	mathematical sans-serif bold italic pi symbol

13.3 Miscellaneous

USV	L X S P D F N H E C R	Macro	Description
U+000F0	ð ð ð ð ð ð ð ð ð ð	`\matheth`	eth
U+02010	- - - - - - - — - - -	`\mathhyphen`	hyphen
U+02102	ℂ ℂ ℂ ℂ ℂ ℂ ℂ ℂ ℂ ℂ ℂ	`\BbbC`	/bbb c, open face c
U+0210A	𝑔 𝑔 𝑔 𝑔 𝑔 𝑔 𝑔 𝑔 𝑔	`\mscrg`	/scr g, script letter g
U+0210B	ℋ ℋ ℋ ℋ ℋ ℋ ℋ ℋ ℋ	`\mscrH`	hamiltonian (script capital h)
U+0210C	ℌ ℌ ℌ ℌ ℌ ℌ ℌ ℌ ℌ	`\mfrakH`	/frak h, upper case h
U+0210D	ℍ ℍ ℍ ℍ ℍ ℍ ℍ ℍ ℍ ℍ	`\BbbH`	/bbb h, open face h
U+0210F	ℏ ℏ ℏ ℏ ℏ ℏ ℏ ℏ ℏ ℏ	`\hslash`[a]	/hslash - variant planck's over 2pi
U+02110	ℐ ℐ ℐ ℐ ℐ ℐ ℐ ℐ ℐ	`\mscrI`	/scr i, script letter i
U+02111	ℑ ℑ ℑ ℑ ℑ ℑ ℑ ℑ ℑ	`\Im`[p]	imaginary part
U+02112	ℒ ℒ ℒ ℒ ℒ ℒ ℒ ℒ ℒ	`\mscrL`	lagrangian (script capital l)
U+02113	ℓ ℓ ℓ ℓ ℓ ℓ ℓ ℓ ℓ ℓ	`\ell`[p]	cursive small l
U+02115	ℕ ℕ ℕ 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 ℙ ℙ ℙ	`\BbbP`	/bbb p, open face p
U+0211A	ℚ ℚ ℚ ℚ ℚ ℚ ℚ ℚ ℚ ℚ	`\BbbQ`	/bbb q, open face q
U+0211B	ℛ ℛ ℛ ℛ ℛ ℛ ℛ ℛ ℛ	`\mscrR`	/scr r, script letter r
U+0211C	ℜ ℜ ℜ ℜ ℜ ℜ ℜ ℜ ℜ	`\Re`[p]	real part
U+0211D	ℝ ℝ ℝ ℝ ℝ ℝ ℝ ℝ ℝ ℝ	`\BbbR`	/bbb r, open face r
U+02124	ℤ ℤ ℤ ℤ ℤ ℤ ℤ ℤ ℤ ℤ	`\BbbZ`	/bbb z, open face z
U+02128	ℨ ℨ 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 Å Å Å Å	`\Angstrom`	angstrom capital a, ring
U+0212C	ℬ ℬ ℬ ℬ ℬ ℬ ℬ ℬ ℬ	`\mscrB`	bernoulli function (script capital b)
U+0212D	ℭ ℭ ℭ ℭ ℭ ℭ ℭ ℭ ℭ	`\mfrakC`	black-letter capital c
U+0212F	ℯ ℯ ℯ ℯ ℯ ℯ ℯ ℯ	`\mscre`	/scr e, script letter e
U+02130	ℰ ℰ ℰ ℰ ℰ ℰ ℰ ℰ ℰ	`\mscrE`	/scr e, script letter e
U+02131	ℱ ℱ ℱ ℱ ℱ ℱ ℱ ℱ ℱ	`\mscrF`	/scr f, script letter f
U+02133	ℳ ℳ ℳ ℳ ℳ ℳ ℳ ℳ ℳ ℳ	`\mscrM`	physics m-matrix (script capital m)
U+02134	ℴ ℴ ℴ ℴ ℴ ℴ ℴ ℴ	`\mscro`	order of (script small o)
U+02135	ℵ ℵ ℵ ℵ ℵ ℵ ℵ ℵ ℵ ℵ	`\aleph`[p]	aleph, hebrew
U+02136	ℶ ℶ ℶ ℶ ℶ ℶ ℶ ℶ ℶ ℶ	`\beth`[a]	beth, hebrew
U+02137	ℷ ℷ ℷ ℷ ℷ ℷ ℷ ℷ ℷ ℷ	`\gimel`[a]	gimel, hebrew
U+02138	ℸ ℸ ℸ ℸ ℸ ℸ ℸ ℸ ℸ ℸ	`\daleth`[a]	daleth, hebrew
U+0213D	ℽ ℽ ℽ ℽ ℽ ℽ	`\Bbbgamma`	double-struck small gamma
U+0213E	ℾ ℾ ℾ ℾ ℾ ℾ	`\BbbGamma`	double-struck capital gamma
U+0213F	ℿ ℿ ℿ ℿ ℿ ℿ	`\BbbPi`	double-struck capital pi
U+02202	∂ ∂ ∂ ∂ ∂ ∂ ∂ ∂ ∂ ∂	`\partial`[p]	partial differential
U+02207	∇ ∇ ∇ ∇ ∇ ∇ ∇ ∇ ∇ ∇	`\nabla`[p]	nabla, del, hamilton operator
U+1D6A4	𝚤 𝚤 𝚤 𝚤 𝚤 𝚤 𝚤 𝚤 𝚤 𝚤	`\imath`[p]	mathematical italic small dotless i

USV	L	X	S	P	D	F	N	H	E	C	R	Macro	Description
U+1D6A5	*ȷ*	*J*	*J*	*J*	*J*	*J*	*ȷ*	*J*	*J*	*J*	*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			F	F					\mbfDigamma	mathematical bold capital digamma
U+1D7CB		F	ϝ			F	ϝ					\mbfdigamma	mathematical bold small digamma