

# Symbols defined by unicode-math

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Modified (df) to show Concrete Math symbols

This document uses the file `unicode-math-table.tex` to print every symbol defined by the `unicode-math` package. Use this document to find the command name or the Unicode glyph slot for a symbol that you wish to use. The following fonts are shown: (with approximate symbol counts)<sup>1</sup>

M **Latin Modern Math** (1602)

S **STIX Two Math** (2447)

C **Concrete Math** (1658)

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

D **DejaVu Math TeX Gyre** (1657)

L **Libertinus Math** (1660)

G **Garamond Math** (1647)

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

Note that this list of fonts is not intended to be exhaustive but I am happy to add new fonts by request if they are distributed in  $\TeX$  Live.<sup>2</sup>

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<sup>1</sup>Be aware that 48 lowercase latin letters are missing in *Script* and *BoldScript* shapes for both Latin Modern Math and Concrete Math, compared to the other four fonts.

<sup>2</sup>Only a single  $\TeX$  Gyre Math font is shown here by design as they all largely have the same symbol coverage.

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# 1 Opening symbols, `\mathopen`

USV	M	S	C	P	D	L	G	Macro	Description
U+00028	(	(	(	(	(	(	(	<code>\lparen</code>	left parenthesis
U+0005B	[	[	[	[	[	[	[	<code>\lbrack</code>	left square bracket
U+0007B	{	{	{	{	{	{	{	<code>\lbrace<sup>(p)</sup></code>	left curly bracket
U+0221A	√	√	√	√	√	√	√	<code>\sqrt<sup>(p)</sup></code>	radical
U+0221B	∛	∛				∛		<code>\cuberoot</code>	cube root
U+0221C	∜	∜				∜		<code>\fourthroot</code>	fourth root
U+02308	⌈	⌈	⌈	⌈	⌈	⌈	⌈	<code>\lceil<sup>(p)</sup></code>	left ceiling
U+0230A	⌋	⌋	⌋	⌋	⌋	⌋	⌋	<code>\lfloor<sup>(p)</sup></code>	left floor
U+0231C	⌜	⌜	⌜	⌜	⌜	⌜	⌜	<code>\ulcorner</code>	upper left corner
U+0231E	⏟	⏟	⏟	⏟	⏟	⏟	⏟	<code>\llcorner</code>	lower left corner
U+023B0	⎵	⎵				⎵		<code>\lmoustache<sup>(p)</sup></code>	upper left or lower right curly bracket section
U+02772	⎵							<code>\lbrbrak</code>	light left tortoise shell bracket ornament
U+027C5	⎵							<code>\lbag</code>	left s-shaped bag delimiter
U+027CC	⎵							<code>\longdivision</code>	long division
U+027E6	⎵	⎵	⎵	⎵	⎵	⎵	⎵	<code>\lBrack</code>	mathematical left white square bracket
U+027E8	⎵	⎵	⎵	⎵	⎵	⎵	⎵	<code>\langle<sup>(p)</sup></code>	mathematical left angle bracket
U+027EA	⎵	⎵	⎵	⎵	⎵	⎵	⎵	<code>\lAngle</code>	mathematical left double angle bracket
U+027EC	⎵						⎵	<code>\Lbrbrak</code>	mathematical left white tortoise shell bracket
U+027EE	(	(	(	(	(	(	(	<code>\lgroup<sup>(p)</sup></code>	mathematical left flattened parenthesis
U+02983	{							<code>\lBrace</code>	left white curly bracket
U+02985	(							<code>\lParen</code>	left white parenthesis
U+02987	⎵						⎵	<code>\llparenthesis</code>	z notation left image bracket
U+02989	⎵							<code>\llangle</code>	z notation left binding bracket
U+0298B	⎵							<code>\lbrackubar</code>	left square bracket with underbar
U+0298D	⎵							<code>\lbrackultick</code>	left square bracket with tick in top corner
U+0298F	⎵							<code>\lbracklltick</code>	left square bracket with tick in bottom corner
U+02991	⎵							<code>\langedot</code>	left angle bracket with dot
U+02993	⎵							<code>\lparenless</code>	left arc less-than bracket

USV	M	S	C	P	D	L	G	Macro	Description
U+02995		⌞						<code>\lparengtr</code>	double left arc greater-than bracket
U+02997		⌜						<code>\lblkbrbrak</code>	left black tortoise shell bracket
U+029D8		⌚						<code>\lvzigzag</code>	left wiggly fence
U+029DA		⌚⌚						<code>\Lvzigzag</code>	left double wiggly fence
U+029FC		⌷				⌷		<code>\lcurvyangle</code>	left pointing curved angle bracket

## 2 Closing symbols, `\mathclose`

USV	M	S	C	P	D	L	G	Macro	Description
U+00021	!	!	!	!	!	!	!	<code>\mathexclam</code>	exclamation mark
U+00029	)	)	)	)	)	)	)	<code>\rparen</code>	right parenthesis
U+0005D	]	]	]	]	]	]	]	<code>\rbrack</code>	right square bracket
U+0007D	}	}	}	}	}	}	}	<code>\rbrace<sup>(p)</sup></code>	right curly bracket
U+02309	⌈	⌈	⌈	⌈	⌈	⌈	⌈	<code>\rceil<sup>(p)</sup></code>	right ceiling
U+0230B	⌋	⌋	⌋	⌋	⌋	⌋	⌋	<code>\rfloor<sup>(p)</sup></code>	right floor
U+0231D	⌞	⌞	⌞	⌞	⌞	⌞	⌞	<code>\urcorner</code>	upper right corner
U+0231F	⌟	⌟	⌟	⌟	⌟	⌟	⌟	<code>\lrcorner</code>	lower right corner
U+023B1		⌿	⌿					<code>\rmoustache<sup>(p)</sup></code>	upper right or lower left curly bracket section
U+02773		)						<code>\rbrbrak</code>	light right tortoise shell bracket ornament
U+027C6		⌋						<code>\rbag</code>	right s-shaped bag delimiter
U+027E7	⌈	⌈	⌈	⌈	⌈	⌈	⌈	<code>\rBrack</code>	mathematical right white square bracket
U+027E9	⌋	⌋	⌋	⌋	⌋	⌋	⌋	<code>\rangle<sup>(p)</sup></code>	mathematical right angle bracket
U+027EB	⌋⌋	⌋⌋	⌋⌋	⌋⌋	⌋⌋	⌋⌋	⌋⌋	<code>\rAngle</code>	mathematical right double angle bracket
U+027ED		⌋				⌋		<code>\Rbrbrak</code>	mathematical right white tortoise shell bracket
U+027EF	)	)	)	)	)	)	)	<code>\rgroup<sup>(p)</sup></code>	mathematical right flattened parenthesis
U+02984		⌋						<code>\rBrace</code>	right white curly bracket
U+02986		)						<code>\rParen</code>	right white parenthesis
U+02988		⌋				⌋		<code>\rrparenthesis</code>	z notation right image bracket
U+0298A		⌋						<code>\rrangle</code>	z notation right binding bracket

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

### 3 Fence symbols, `\mathfence`

USV	M	S	C	P	D	L	G	Macro	Description
U+0007C	|	|	|	|	|	|	|	<code>\vert<sup>(p)</sup></code>	vertical bar
U+02016	||	||	||	||	||	||	||	<code>\Vert<sup>(p)</sup></code>	double vertical bar
U+02980	|||	|||						<code>\Vvert</code>	triple vertical bar delimiter

### 4 Punctuation symbols, `\mathpunct`

USV	M	S	C	P	D	L	G	Macro	Description
U+0002C	,	,	,	,	,	,	,	<code>\mathcomma</code>	comma
U+0003A	:	:	:	:	:	:	:	<code>\mathcolon</code>	colon
U+0003B	;	;	;	;	;	;	;	<code>\mathsemicolon</code>	semicolon p:

## 5 ‘Over’ symbols, `\mathover`

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

## 6 ‘Under’ symbols, `\mathunder`

USV	M	S	C	P	D	L	G	Macro	Description
U+023B5	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	$\underline{x+y}$	<code>\underbracket</code>	bottom square bracket
U+023DD	$\underparen{x+y}$	$\underparen{x+y}$	$\underparen{x+y}$	$\underparen{x+y}$	$\underparen{x+y}$	$\underparen{x+y}$	$\underparen{x+y}$	<code>\underparen</code>	bottom parenthesis (mathematical use)
U+023DF	$\underbrace{x+y}$	$\underbrace{x+y}$	$\underbrace{x+y}$	$\underbrace{x+y}$	$\underbrace{x+y}$	$\underbrace{x+y}$	$\underbrace{x+y}$	<code>\underbrace<sup>(p)</sup></code>	bottom curly bracket (mathematical use)

## 7 Accents, `\mathaccent`

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

USV	M	S	C	P	D	L	G	Macro	Description
U+00300	$\grave{x}$	$\grave{x}$	$\grave{x}$	$\grave{x}$	$\grave{X}$	$\grave{x}$	$\grave{x}$	<code>\grave<sup>(p)</sup></code>	grave accent
U+00301	$\acute{x}$	$\acute{x}$	$\acute{x}$	$\acute{x}$	$\acute{X}$	$\acute{x}$	$\acute{x}$	<code>\acute<sup>(p)</sup></code>	acute accent
U+00302	$\hat{x}$	$\hat{x}$	$\hat{x}$	$\hat{x}$	$\hat{X}$	$\hat{x}$	$\hat{x}$	<code>\hat<sup>(p)</sup></code>	circumflex accent
U+00303	$\tilde{x}$	$\tilde{x}$	$\tilde{x}$	$\tilde{x}$	$\tilde{X}$	$\tilde{x}$	$\tilde{x}$	<code>\tilde<sup>(p)</sup></code>	tilde
U+00304	$\bar{x}$	$\bar{x}$	$\bar{x}$	$\bar{x}$	$\bar{X}$	$\bar{x}$	$\bar{x}$	<code>\bar<sup>(p)</sup></code>	macron
U+00305	$\overline{x}$	$\overline{x}$	$\overline{x}$	$\overline{x}$	$\overline{X}$	$\overline{x}$	$\overline{x}$	<code>\overbar</code>	overbar embellishment
U+00306	$\breve{x}$	$\breve{x}$	$\breve{x}$	$\breve{x}$	$\breve{X}$	$\breve{x}$	$\breve{x}$	<code>\breve<sup>(p)</sup></code>	breve
U+00307	$\dot{x}$	$\dot{x}$	$\dot{x}$	$\dot{x}$	$\dot{X}$	$\dot{x}$	$\dot{x}$	<code>\dot<sup>(p)</sup></code>	dot above
U+00308	$\ddot{x}$	$\ddot{x}$	$\ddot{x}$	$\ddot{x}$	$\ddot{X}$	$\ddot{x}$	$\ddot{x}$	<code>\ddot<sup>(p)</sup></code>	dieresis
U+00309	$\mathring{x}$	$\mathring{x}$	$\mathring{x}$	$\mathring{x}$	$\mathring{X}$	$\mathring{x}$	$\mathring{x}$	<code>\ovhook</code>	combining hook above
U+0030A	$\mathring{x}$	$\mathring{x}$	$\mathring{x}$	$\mathring{x}$	$\mathring{X}$	$\mathring{x}$	$\mathring{x}$	<code>\ocirc</code>	ring
U+0030C	$\check{x}$	$\check{x}$	$\check{x}$	$\check{x}$	$\check{X}$	$\check{x}$	$\check{x}$	<code>\check<sup>(p)</sup></code>	caron
U+00310	$\mathring{x}$				$\mathring{x}$			<code>\candra</code>	candrabindu (non-spacing)

USV	M	S	C	P	D	L	G	Macro	Description
U+00312								<code>\turnedcomma</code>	combining turned comma above
U+00315								<code>\ocommatopright</code>	combining comma above right
U+0031A								<code>\droang</code>	left angle above (non-spacing)
U+020D0								<code>\leftharpoonaccent</code>	combining left harpoon above
U+020D1								<code>\rightharpoonaccent</code>	combining right harpoon above
U+020D2								<code>\vertoverlay</code>	combining long vertical line overlay
U+020D7								<code>\vec<sup>(p)</sup></code>	combining right arrow above
U+020DB								<code>\ddddot</code>	combining three dots above
U+020DC								<code>\ddddot</code>	combining four dots above
U+020E7								<code>\annuity</code>	combining annuity symbol
U+020E9								<code>\widebridgeabove</code>	combining wide bridge above
U+020F0								<code>\asteraccent</code>	combining asterisk above

## 8 Accents wide, `\mathaccentwide`

USV	M	S	C	P	D	L	G	Macro	Description
U+00302	+	+	+	+	+	+	+	<code>\widehat<sup>(p)</sup></code>	circumflex accent
U+00303	+	+	+	+	+	+	+	<code>\widetilde<sup>(p)</sup></code>	tilde
U+00305	+	+	+	+	+	+	+	<code>\wideoverbar</code>	stretchy overbar embellishment
U+00306	+	+	+	+	+	+	+	<code>\widebreve</code>	stretchy breve
U+0030C	+	+	+	+	+	+	+	<code>\widecheck</code>	stretchy caron
U+020D0	+	+	+	+	+	+	+	<code>\overleftharpoon</code>	combining left harpoon above
U+020D1	+	+	+	+	+	+	+	<code>\overrightharpoon</code>	combining right harpoon above
U+020D6	+	+	+	+	+	+	+	<code>\overleftarrow<sup>(p)</sup></code>	combining left arrow above
U+020D7	+	+	+	+	+	+	+	<code>\overrightarrow<sup>(p)</sup></code>	combining left arrow above
U+020E1	+	+	+	+	+	+	+	<code>\overleftrightarrow</code>	combining left right arrow above

## 9 Bottom accents, `\mathbotaccent`

USV	M	S	C	P	D	L	G	Macro	Description	
U+020E8	$\underline{\underline{x}}$	$\underline{\underline{y}}$	$\underline{\underline{x}}$	$\underline{\underline{y}}$	$\underline{\underline{x}}$	$\underline{\underline{y}}$	$\underline{\underline{x}}$	$\underline{\underline{y}}$	<code>\threeunderdot</code>	combining triple underdot

## 10 Bottom accents wide, `\mathbotaccentwide`

USV	M	S	C	P	D	L	G	Macro	Description
U+00330	$\widetilde{x+y}$	$\widetilde{x+y}$	$\widetilde{x+y}$	$\widetilde{x+y}$	$\widetilde{x+y}$	$\widetilde{x+y}$	$\widetilde{x+y}$	<code>\wideutilde</code>	under tilde accent (multiple characters and non-spacing)
U+00332	$\mathring{x+y}$	$\mathring{x+y}$	$\mathring{x+y}$	$\mathring{x+y}$	$\mathring{x+y}$	$\mathring{x+y}$	$\mathring{x+y}$	<code>\mathunderbar</code>	combining low line
U+0034D	$\xleftrightarrow{x+y}$	$\xleftrightarrow{x+y}$	$\xleftrightarrow{x+y}$	$\xleftrightarrow{x+y}$	$\xleftrightarrow{x+y}$	$\xleftrightarrow{x+y}$	$\xleftrightarrow{x+y}$	<code>\underleftrightharpoonarrow</code>	underleftrightharpoon accent
U+020EC	$\xrightarrow{x+y}$	$\xrightarrow{x+y}$	$\xrightarrow{x+y}$	$\xrightarrow{x+y}$	$\xrightarrow{x+y}$	$\xrightarrow{x+y}$	$\xrightarrow{x+y}$	<code>\underrightharpoondown</code>	combining rightwards harpoon with barb downwards
U+020ED	$\xleftarrow{x+y}$	$\xleftarrow{x+y}$	$\xleftarrow{x+y}$	$\xleftarrow{x+y}$	$\xleftarrow{x+y}$	$\xleftarrow{x+y}$	$\xleftarrow{x+y}$	<code>\underleftharpoondown</code>	combining leftwards harpoon with barb downwards
U+020EE	$\xleftarrow{x+y}$	$\xleftarrow{x+y}$	$\xleftarrow{x+y}$	$\xleftarrow{x+y}$	$\xleftarrow{x+y}$	$\xleftarrow{x+y}$	$\xleftarrow{x+y}$	<code>\underleftarrow</code>	combining left arrow below
U+020EF	$\xrightarrow{x+y}$	$\xrightarrow{x+y}$	$\xrightarrow{x+y}$	$\xrightarrow{x+y}$	$\xrightarrow{x+y}$	$\xrightarrow{x+y}$	$\xrightarrow{x+y}$	<code>\underrightarrow</code>	combining right arrow below

## 11 Big operators, `\mathop`

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

USV	M	S	C	P	D	L	G	Macro	Description
U+02140	$\mathop{\sum}_0^1$	<code>\Bbbsum</code>	double-struck n-ary summation						
U+0220F	$\mathop{\prod}_0^1$	<code>\prod^{(p)}</code>	product operator						
U+02210	$\mathop{\coprod}_0^1$	<code>\coprod^{(p)}</code>	coproduct operator						
U+02211	$\mathop{\sum}_0^1$	<code>\sum^{(p)}</code>	summation operator						
U+0222B	$\mathop{\int}_0^1$	<code>\int^{(p)}</code>	integral operator						
U+0222C	$\mathop{\iint}_0^1$	<code>\iint</code>	double integral operator						
U+0222D	$\mathop{\iiint}_0^1$	<code>\iiint</code>	triple integral operator						

USV	M	S	C	P	D	L	G	Macro	Description
U+0222E								<code>\oint<sup>(p)</sup></code>	contour integral operator
U+0222F								<code>\oiint</code>	double contour integral operator
U+02230								<code>\oiint</code>	triple contour integral operator
U+02231								<code>\intclockwise</code>	clockwise integral
U+02232								<code>\varointclockwise</code>	contour integral, clockwise
U+02233								<code>\ointctrackwise</code>	contour integral, anticlockwise
U+022C0								<code>\bigwedge<sup>(p)</sup></code>	logical and operator
U+022C1								<code>\bigvee<sup>(p)</sup></code>	logical or operator
U+022C2								<code>\bigcap<sup>(p)</sup></code>	intersection operator
U+022C3								<code>\bigcup<sup>(p)</sup></code>	union operator
U+027D5								<code>\leftouterjoin</code>	left outer join
U+027D6								<code>\rightouterjoin</code>	right outer join
U+027D7								<code>\fullouterjoin</code>	full outer join
U+027D8								<code>\bigbot</code>	large up tack
U+027D9								<code>\bigtop</code>	large down tack
U+029F8								<code>\xsol</code>	big solidus
U+029F9								<code>\xbsol</code>	big reverse solidus
U+02A00								<code>\bigodot<sup>(p)</sup></code>	n-ary circled dot operator
U+02A01								<code>\bigoplus<sup>(p)</sup></code>	n-ary circled plus operator
U+02A02								<code>\bigotimes<sup>(p)</sup></code>	n-ary circled times operator
U+02A03								<code>\bigcupdot</code>	n-ary union operator with dot
U+02A04								<code>\biguplus<sup>(p)</sup></code>	n-ary union operator with plus
U+02A05								<code>\bigsqcap</code>	n-ary square intersection operator

USV	M	S	C	P	D	L	G	Macro	Description
U+02A06								<code>\bigsqcup<sup>(p)</sup></code>	n-ary square union operator
U+02A07								<code>\conjquant</code>	two logical and operator
U+02A08								<code>\disjquant</code>	two logical or operator
U+02A09								<code>\bigtimes</code>	n-ary times operator
U+02A0A								<code>\modtwosum</code>	modulo two sum
U+02A0B								<code>\sumint</code>	summation with integral
U+02A0C								<code>\iiint</code>	quadruple integral operator
U+02A0D								<code>\intbar</code>	finite part integral
U+02A0E								<code>\intBar</code>	integral with double stroke
U+02A0F								<code>\fint</code>	integral average with slash
U+02A10								<code>\cirfnint</code>	circulation function
U+02A11								<code>\awint</code>	anticlockwise integration
U+02A12								<code>\rppoint</code>	line integration with rectangular path around pole
U+02A13								<code>\scpoint</code>	line integration with semicircular path around pole
U+02A14								<code>\npoint</code>	line integration not including the pole
U+02A15								<code>\pointint</code>	integral around a point operator
U+02A16								<code>\sqint</code>	quaternion integral operator
U+02A17								<code>\intlarhk</code>	integral with leftwards arrow with hook
U+02A18								<code>\intx</code>	integral with times sign
U+02A19								<code>\intcap</code>	integral with intersection
U+02A1A								<code>\intcup</code>	integral with union
U+02A1B								<code>\upint</code>	integral with overbar

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

## 12 Binary relations, `\mathbin`

USV	M	S	C	P	D	L	G	Macro	Description
U+0002B	+	+	+	+	+	+	+	<code>\mathplus</code>	plus sign b:
U+000B1	±	±	±	±	±	±	±	<code>\pm<sup>(p)</sup></code>	plus-or-minus sign
U+000B7	·	·	·	·	·	·	·	<code>\cdot<sup>(p)</sup></code>	/centerdot b: middle dot
U+000D7	×	×	×	×	×	×	×	<code>\times<sup>(p)</sup></code>	multiply sign
U+000F7	÷	÷	÷	÷	÷	÷	÷	<code>\div<sup>(p)</sup></code>	divide sign
U+02020	†	†	†	†	†	†	†	<code>\dagger<sup>(p)</sup></code>	dagger relation
U+02021	‡	‡	‡	‡	‡	‡	‡	<code>\ddagger<sup>(p)</sup></code>	double dagger relation
U+02022	●	●	●	●	●	●	●	<code>\smbllkcircle</code>	/bullet b: round bullet, filled
U+02040		⤵	⤶					<code>\tieconcat</code>	character tie, z notation sequence concatenation
U+02044	/	/	/	/	/	/	/	<code>\fracslash</code>	fraction slash
U+0214B		↯	↯				↯	<code>\upand</code>	turned ampersand
U+02212	-	-	-	-	-	-	-	<code>\minus</code>	minus sign
U+02213	∓	∓	∓	∓	∓	∓	∓	<code>\mp<sup>(p)</sup></code>	minus-or-plus sign
U+02214	⊕	⊕	⊕	⊕	⊕	⊕	⊕	<code>\dotplus<sup>(a)</sup></code>	plus sign, dot above

USV	M	S	C	P	D	L	G	Macro	Description
U+02215	/	/	/	/	/	/	/	<code>\divslash</code>	division slash
U+02216	\	\	\	\	\	\	\	<code>\setminus<sup>(p)</sup></code>	set minus (cf. reverse solidus)
U+02217	*	*	*	*	*	*	*	<code>\ast<sup>(p)</sup></code>	centered asterisk
U+02218	◦	◦	◦	◦	◦	◦	◦	<code>\vysmwhtcircle</code>	composite function (small circle)
U+02219	•	•	•	•	•	•	•	<code>\vysmblkcircle</code>	bullet operator
U+02227	∧	∧	∧	∧	∧	∧	∧	<code>\wedge<sup>(p)</sup></code>	/wedge /land b: logical and
U+02228	∨	∨	∨	∨	∨	∨	∨	<code>\vee<sup>(p)</sup></code>	/vee /lor b: logical or
U+02229	∩	∩	∩	∩	∩	∩	∩	<code>\cap<sup>(p)</sup></code>	intersection
U+0222A	∪	∪	∪	∪	∪	∪	∪	<code>\cup<sup>(p)</sup></code>	union or logical sum
U+02238	÷	÷	÷	÷	÷	÷	÷	<code>\dotminus</code>	minus sign, dot above
U+0223E	∞	∞	∞	∞	∞	∞	∞	<code>\invlazys</code>	most positive [inverted lazy s]
U+02240	⋈	⋈	⋈	⋈	⋈	⋈	⋈	<code>\wr<sup>(p)</sup></code>	wreath product
U+0228C	⋈	⋈	⋈	⋈	⋈	⋈	⋈	<code>\cupleftarrow</code>	multiset
U+0228D	∪	∪	∪	∪	∪	∪	∪	<code>\cupdot</code>	union, with dot
U+0228E	⋈	⋈	⋈	⋈	⋈	⋈	⋈	<code>\uplus<sup>(p)</sup></code>	plus sign in union
U+02293	⊓	⊓	⊓	⊓	⊓	⊓	⊓	<code>\sqcap<sup>(p)</sup></code>	square intersection
U+02294	⊔	⊔	⊔	⊔	⊔	⊔	⊔	<code>\sqcup<sup>(p)</sup></code>	square union
U+02295	⊕	⊕	⊕	⊕	⊕	⊕	⊕	<code>\oplus<sup>(p)</sup></code>	plus sign in circle
U+02296	⊖	⊖	⊖	⊖	⊖	⊖	⊖	<code>\ominus<sup>(p)</sup></code>	minus sign in circle
U+02297	⊗	⊗	⊗	⊗	⊗	⊗	⊗	<code>\otimes<sup>(p)</sup></code>	multiply sign in circle
U+02298	⊘	⊘	⊘	⊘	⊘	⊘	⊘	<code>\oslash<sup>(p)</sup></code>	solidus in circle
U+02299	⊙	⊙	⊙	⊙	⊙	⊙	⊙	<code>\odot<sup>(p)</sup></code>	middle dot in circle
U+0229A	⊚	⊚	⊚	⊚	⊚	⊚	⊚	<code>\circledcirc<sup>(a)</sup></code>	small circle in circle
U+0229B	⊛	⊛	⊛	⊛	⊛	⊛	⊛	<code>\circledast<sup>(a)</sup></code>	asterisk in circle
U+0229C	⊜	⊜	⊜	⊜	⊜	⊜	⊜	<code>\circledequal</code>	equal in circle
U+0229D	⊝	⊝	⊝	⊝	⊝	⊝	⊝	<code>\circleddash<sup>(a)</sup></code>	hyphen in circle
U+0229E	⊞	⊞	⊞	⊞	⊞	⊞	⊞	<code>\boxplus<sup>(a)</sup></code>	plus sign in box
U+0229F	⊟	⊟	⊟	⊟	⊟	⊟	⊟	<code>\boxminus<sup>(a)</sup></code>	minus sign in box
U+022A0	⊠	⊠	⊠	⊠	⊠	⊠	⊠	<code>\boxtimes<sup>(a)</sup></code>	multiply sign in box
U+022A1	⊡	⊡	⊡	⊡	⊡	⊡	⊡	<code>\boxdot<sup>(a)</sup></code>	/dotsquare /boxdot b: small dot in box
U+022BA	⌈	⌈	⌈	⌈	⌈		⌈	<code>\intercal<sup>(a)</sup></code>	intercal
U+022BB	∨	∨	∨	∨	∨		∨	<code>\veebar<sup>(a)</sup></code>	logical or, bar below (large vee); exclusive disjunction
U+022BC	⌋	⌋	⌋	⌋	⌋		⌋	<code>\barwedge<sup>(a)</sup></code>	bar, wedge (large wedge)

USV	M	S	C	P	D	L	G	Macro	Description
U+022BD								<code>\barvee</code>	bar, vee (large vee)
U+022C4								<code>\smwhtdiamond</code>	white diamond
U+022C5								<code>\cdot<sup>(p)</sup></code>	small middle dot
U+022C6								<code>\star<sup>(p)</sup></code>	small star, filled, low
U+022C7								<code>\divideontimes<sup>(a)</sup></code>	division on times
U+022C9								<code>\ltimes<sup>(a)</sup></code>	times sign, left closed
U+022CA								<code>\rtimes<sup>(a)</sup></code>	times sign, right closed
U+022CB								<code>\leftthreetimes<sup>(a)</sup></code>	left semidirect product
U+022CC								<code>\rightthreetimes<sup>(a)</sup></code>	right semidirect product
U+022CE								<code>\curlyvee<sup>(a)</sup></code>	curly logical or
U+022CF								<code>\curlywedge<sup>(a)</sup></code>	curly logical and
U+022D2								<code>\Cap<sup>(a)</sup></code>	<code>/cap /doublecap b</code> : double intersection
U+022D3								<code>\Cup<sup>(a)</sup></code>	<code>/cup /doublecup b</code> : double union
U+02305								<code>\varbarwedge</code>	<code>/barwedge b</code> : logical and, bar above [projective (bar over small wedge)]
U+02306								<code>\vardoublebarwedge</code>	<code>/doublebarwedge b</code> : logical and, double bar above [perspective (double bar over small wedge)]
U+0233D								<code>\obar</code>	circle with vertical bar
U+025B3								<code>\bigtriangleup<sup>(p)</sup></code>	big up triangle, open
U+025B7								<code>\triangleright<sup>(p)</sup></code>	(large) right triangle, open; z notation range restriction
U+025C1								<code>\triangleleft<sup>(p)</sup></code>	(large) left triangle, open; z notation domain restriction
U+025CB								<code>\mdlgwhtcircle</code>	medium large circle
U+025EB								<code>\boxbar</code>	vertical bar in box
U+027C7								<code>\veedot</code>	or with dot inside
U+027D1								<code>\wedgedot</code>	and with dot
U+027E0								<code>\lozengeminus</code>	lozenge divided by horizontal rule
U+027E1								<code>\concavediamond</code>	white concave-sided diamond
U+027E2								<code>\concavediamondtickleft</code>	white concave-sided diamond with leftwards tick
U+027E3								<code>\concavediamondtickright</code>	white concave-sided diamond with rightwards tick
U+027E4								<code>\whitesquaretickleft</code>	white square with leftwards tick
U+027E5								<code>\whitesquaretickright</code>	white square with rightwards tick

USV	M	S	C	P	D	L	G	Macro	Description
U+029B5		⊖						<code>\circlehbar</code>	circle with horizontal bar
U+029B6		⊕						<code>\circledvert</code>	circled vertical bar
U+029B7		⊕						<code>\circledparallel</code>	circled parallel
U+029B8		⊘						<code>\obslash</code>	circled reverse solidus
U+029B9		⊥				⊥		<code>\operp</code>	circled perpendicular
U+029C0		⊘						<code>\olessthan</code>	circled less-than
U+029C1		⊘						<code>\ogreaterthan</code>	circled greater-than
U+029C4		⊠						<code>\boxdiag</code>	squared rising diagonal slash
U+029C5		⊡						<code>\boxbslash</code>	squared falling diagonal slash
U+029C6		⊛						<code>\boxast</code>	squared asterisk
U+029C7		⊜						<code>\boxcircle</code>	squared small circle
U+029C8		⊝						<code>\boxbox</code>	squared square
U+029CD		△						<code>\trianglesterifs</code>	triangle with serifs at bottom
U+029D6		⌚						<code>\hourglass</code>	white hourglass
U+029D7		⌚						<code>\blackhourglass</code>	black hourglass
U+029E2		⌛						<code>\shuffle</code>	shuffle product
U+029EB		◆	◆					<code>\mdlgblklozenge</code>	black lozenge
U+029F5		↖	↗			↖	↗	<code>\reversesolidus</code>	reverse solidus
U+029F6		↗				↗		<code>\dsol</code>	solidus with overbar
U+029F7		↖				↖		<code>\rsolbar</code>	reverse solidus with horizontal stroke
U+029FA		≡						<code>\doubleplus</code>	double plus
U+029FB		≡						<code>\tripleplus</code>	triple plus
U+029FE		+						<code>\tplus</code>	tiny
U+029FF		-						<code>\tminus</code>	miny
U+02A22		⊕						<code>\ringplus</code>	plus sign with small circle above
U+02A23		⊕						<code>\plushat</code>	plus sign with circumflex accent above
U+02A24		⊕						<code>\simplus</code>	plus sign with tilde above
U+02A25		⊕						<code>\plusdot</code>	plus sign with dot below
U+02A26		⊕						<code>\plussim</code>	plus sign with tilde below
U+02A27		⊕						<code>\plussubtwo</code>	plus sign with subscript two
U+02A28		⊕						<code>\plustrif</code>	plus sign with black triangle
U+02A29		⊕						<code>\commaminus</code>	minus sign with comma above
U+02A2A		⊕						<code>\minusdot</code>	minus sign with dot below

USV	M	S	C	P	D	L	G	Macro	Description
U+02A2B		⋮						<code>\minusfdots</code>	minus sign with falling dots
U+02A2C		⋮						<code>\minusrdots</code>	minus sign with rising dots
U+02A2D		⊕						<code>\opluslhrim</code>	plus sign in left half circle
U+02A2E		⊕						<code>\oplusrhrim</code>	plus sign in right half circle
U+02A2F	×	×	×	×	×		×	<code>\vectimes</code>	vector or cross product
U+02A30		⋈						<code>\dottimes</code>	multiplication sign with dot above
U+02A31		⋈						<code>\timesbar</code>	multiplication sign with underbar
U+02A32		⋈						<code>\btimes</code>	semidirect product with bottom closed
U+02A33		⌘						<code>\smashtimes</code>	smash product
U+02A34		⊗						<code>\otimeslhrim</code>	multiplication sign in left half circle
U+02A35		⊗						<code>\otimesrhrim</code>	multiplication sign in right half circle
U+02A36		⊗				⊗		<code>\otimeshat</code>	circled multiplication sign with circumflex accent
U+02A37		⊗						<code>\Otimes</code>	multiplication sign in double circle
U+02A38		⊕						<code>\odiv</code>	circled division sign
U+02A39		⊕						<code>\triangleplus</code>	plus sign in triangle
U+02A3A		⊖						<code>\triangleminus</code>	minus sign in triangle
U+02A3B		⊗						<code>\triangleretimes</code>	multiplication sign in triangle
U+02A3C		⌋						<code>\intprod</code>	interior product
U+02A3D		⌋						<code>\intprodr</code>	righthand interior product
U+02A3E		⋈					⋈	<code>\fcmp</code>	z notation relational composition
U+02A3F	⋈	⋈	⋈	⋈	⋈	⋈	⋈	<code>\amalg<sup>(p)</sup></code>	amalgamation or coproduct
U+02A40		∩						<code>\capdot</code>	intersection with dot
U+02A41		∪						<code>\uminus</code>	union with minus sign
U+02A42		∪						<code>\barcup</code>	union with overbar
U+02A43		∩						<code>\barcap</code>	intersection with overbar
U+02A44		∩						<code>\capwedge</code>	intersection with logical and
U+02A45		∪						<code>\cupvee</code>	union with logical or
U+02A46		∩						<code>\cupovercap</code>	union above intersection
U+02A47		∪						<code>\capovercup</code>	intersection above union
U+02A48		∩						<code>\cupbarcap</code>	union above bar above intersection

USV	M	S	C	P	D	L	G	Macro	Description
U+02A49								<code>\capbarcup</code>	intersection above bar above union
U+02A4A								<code>\twocups</code>	union beside and joined with union
U+02A4B								<code>\twocaps</code>	intersection beside and joined with intersection
U+02A4C								<code>\closedvarcup</code>	closed union with serifs
U+02A4D								<code>\closedvarcap</code>	closed intersection with serifs
U+02A4E								<code>\Sqcap</code>	double square intersection
U+02A4F								<code>\Sqcup</code>	double square union
U+02A50								<code>\closedvarcupsmashprod</code>	closed union with serifs and smash product
U+02A51								<code>\wedgeodot</code>	logical and with dot above
U+02A52								<code>\veeodot</code>	logical or with dot above
U+02A53								<code>\Wedge</code>	double logical and
U+02A54								<code>\Vee</code>	double logical or
U+02A55								<code>\wedgeonwedge</code>	two intersecting logical and
U+02A56								<code>\veeonvee</code>	two intersecting logical or
U+02A57								<code>\bigslantedvee</code>	sloping large or
U+02A58								<code>\bigslantedwedge</code>	sloping large and
U+02A5A								<code>\wedgemidvert</code>	logical and with middle stem
U+02A5B								<code>\veemidvert</code>	logical or with middle stem
U+02A5C								<code>\midbarwedge</code>	logical and with horizontal dash
U+02A5D								<code>\midbarvee</code>	logical or with horizontal dash
U+02A5E								<code>\doublebarwedge<sup>(a)</sup></code>	logical and with double overbar
U+02A5F								<code>\wedgebar</code>	logical and with underbar
U+02A60								<code>\wedgedoublebar</code>	logical and with double underbar
U+02A61								<code>\varveebar</code>	small vee with underbar
U+02A62								<code>\doublebarvee</code>	logical or with double overbar
U+02A63								<code>\veedoublebar</code>	logical or with double underbar
U+02A64								<code>\dsub</code>	z notation domain antirestriction
U+02A65								<code>\rsub</code>	z notation range antirestriction
U+02A71								<code>\eqqplus</code>	equals sign above plus sign
U+02A72								<code>\pluseqq</code>	plus sign above equals sign
U+02AF4								<code>\interleave</code>	triple vertical bar binary relation

USV	M	S	C	P	D	L	G	Macro	Description
U+02AF5		≡						<code>\nhVvert</code>	triple vertical bar with horizontal stroke
U+02AF6		⋮						<code>\threedotcolon</code>	triple colon operator
U+02AFB		≡						<code>\trslash</code>	triple solidus binary relation
U+02AFD		//						<code>\sslash</code>	double solidus operator
U+02AFE		∟						<code>\talloblong</code>	white vertical bar

### 13 Ordinary symbols, `\mathord`

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

usv	M	S	C	P	D	L	G	Macro	Description
U+02034	'''	'''	'''	'''	'''	'''	'''	\trprime	triple prime (not superscripted)
U+02035	\	\	\	\	\	\	\	\backprime <sup>(a)</sup>	reverse prime, not superscripted
U+02036	""	""	""	""	""	""	""	\backdprime	double reverse prime, not superscripted
U+02037	'''	'''	'''	'''	'''	'''	'''	\backtrprime	triple reverse prime, not superscripted
U+02038		^						\caretinsert	caret (insertion mark)
U+0203C		!!					!!	\Exclam	double exclamation mark
U+02043		-						\hyphenbullet	rectangle, filled (hyphen bullet)
U+02047		??					??	\Question	double question mark
U+02057	''''	''''	''''	''''	''''	''''	''''	\qprime	quadruple prime, not superscripted
U+020AC	€	€	€	€	€	€	€	\euro	euro sign
U+020DD	○	○	○	○	○		○	\enclosecircle	combining enclosing circle
U+020DE	□	□	□	□	□		□	\enclosesquare	combining enclosing square
U+020DF	◇	◇	◇	◇	◇		◇	\enclosediamond	combining enclosing diamond
U+020E4	△	△	△	△	△		△	\enclosetriangle	combining enclosing upward pointing triangle
U+02107	ε	ε	ε	ε	ε		ε	\Eulerconst	euler constant
U+0210E	ħ	ħ	ħ	ħ	ħ	ħ	ħ	\Planckconst	planck constant
U+02127	℧	℧	℧	℧	℧	℧	℧	\mho	conductance
U+02132		ƒ	ƒ					\Finv <sup>(a)</sup>	turned capital f
U+0213C	⍷	⍷		⍷	⍷		⍷	\Bbbpi	double-struck small pi
U+02141		Ɔ	Ɔ					\Game <sup>(a)</sup>	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	Ⓓ	Ⓓ		Ⓓ	Ⓓ		Ⓓ	\mitBbbD	double-struck italic capital d
U+02146	ⓓ	ⓓ		ⓓ	ⓓ		ⓓ	\mitBbbd	double-struck italic small d
U+02147	ⓔ	ⓔ		ⓔ	ⓔ		ⓔ	\mitBbbe	double-struck italic small e
U+02148	ⓓ	ⓓ		ⓓ	ⓓ		ⓓ	\mitBbbi	double-struck italic small i
U+02149	ⓙ	ⓙ		ⓙ	ⓙ		ⓙ	\mitBbbj	double-struck italic small j
U+0214A		⌚						\PropertyLine	property line
U+021A8		↕			↕	↕	↕	\updownarrowbar	up down arrow with base (perpendicular)
U+021B4	↘	↘		↘	↘	↘	↘	\linefeed	rightwards arrow with corner downwards

USV	M	S	C	P	D	L	G	Macro	Description
U+021B5								<code>\carriagereturn</code>	downwards arrow with corner leftward = carriage return
U+021B8								<code>\barovernorthwestarrow</code>	north west arrow to long bar
U+021B9								<code>\barleftarrowrightarrowbar</code>	leftwards arrow to bar over rightwards arrow to bar
U+021BA								<code>\acwopencirclearrow</code>	anticlockwise open circle arrow
U+021BB								<code>\cwopencirclearrow</code>	clockwise open circle arrow
U+021DE								<code>\nHuparrow</code>	upwards arrow with double stroke
U+021DF								<code>\nHdownarrow</code>	downwards arrow with double stroke
U+021E0								<code>\leftdasharrow</code>	leftwards dashed arrow
U+021E1								<code>\updasharrow</code>	upwards dashed arrow
U+021E2								<code>\rightdasharrow</code>	rightwards dashed arrow
U+021E3								<code>\downdasharrow</code>	downwards dashed arrow
U+021E6								<code>\leftwhitearrow</code>	leftwards white arrow
U+021E7								<code>\upwhitearrow</code>	upwards white arrow
U+021E8								<code>\rightwhitearrow</code>	rightwards white arrow
U+021E9								<code>\downwhitearrow</code>	downwards white arrow
U+021EA								<code>\whitearrowupfrombar</code>	upwards white arrow from bar
U+02200								<code>\forall</code> <sup>(p)</sup>	for all
U+02201								<code>\complement</code> <sup>(a)</sup>	complement sign
U+02203								<code>\exists</code> <sup>(p)</sup>	at least one exists
U+02204								<code>\nexists</code> <sup>(a)</sup>	negated exists
U+02205								<code>\varnothing</code> <sup>(a)</sup>	circle, slash
U+02206								<code>\increment</code>	laplacian ( $\Delta$ ; $\nabla^2$ )
U+0220E								<code>\QED</code>	end of proof
U+0221A								<code>\surd</code> <sup>(p)</sup>	radical
U+0221E								<code>\infty</code> <sup>(p)</sup>	infinity
U+0221F								<code>\rightangle</code>	right (90 degree) angle
U+02220								<code>\angle</code> <sup>(p)</sup>	angle
U+02221								<code>\measuredangle</code> <sup>(a)</sup>	angle-measured
U+02222								<code>\sphericalangle</code> <sup>(a)</sup>	angle-spherical
U+02234								<code>\therefore</code> <sup>(a)</sup>	therefore
U+02235								<code>\because</code> <sup>(a)</sup>	because
U+0223F								<code>\sinewave</code>	sine wave
U+022A4								<code>\top</code> <sup>(p)</sup>	top

USV	M	S	C	P	D	L	G	Macro	Description
U+022A5	⏟	⏟	⏟	⏟	⏟	⏟	⏟	\bot <sup>(p)</sup>	bottom
U+022B9	⊕	⊕	⊕	⊕	⊕		⊕	\hermitmatrix	hermitian conjugate matrix
U+022BE	⊓	⊓	⊓	⊓	⊓		⊓	\measuredrightangle	right angle-measured [with arc]
U+022BF	⊠	⊠	⊠	⊠	⊠		⊠	\varlrtriangle	right triangle
U+022EF	⋯	⋯	⋯	⋯	⋯	⋯	⋯	\unicodcdots	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	(	(	(	(	(	(	(	\lparenend	left parenthesis upper hook
U+0239C	(	(	(	(	(	(	(	\lparenextender	left parenthesis extension
U+0239D	(	(	(	(	(	(	(	\lparenlend	left parenthesis lower hook
U+0239E	)	)	)	)	)	)	)	\rparenend	right parenthesis upper hook
U+0239F	)	)	)	)	)	)	)	\rparenextender	right parenthesis extension

USV	M	S	C	P	D	L	G	Macro	Description
U+023A0								<code>\rparenlend</code>	right parenthesis lower hook
U+023A1								<code>\lbrackuend</code>	left square bracket upper corner
U+023A2								<code>\lbrackextender</code>	left square bracket extension
U+023A3								<code>\lbracklend</code>	left square bracket lower corner
U+023A4								<code>\rbrackuend</code>	right square bracket upper corner
U+023A5								<code>\rbrackextender</code>	right square bracket extension
U+023A6								<code>\rbracklend</code>	right square bracket lower corner
U+023A7								<code>\lbraceuend</code>	left curly bracket upper hook
U+023A8								<code>\lbracemid</code>	left curly bracket middle piece
U+023A9								<code>\lbracelend</code>	left curly bracket lower hook
U+023AA								<code>\vbraceextender</code>	curly bracket extension
U+023AB								<code>\rbraceuend</code>	right curly bracket upper hook
U+023AC								<code>\rbracemid</code>	right curly bracket middle piece
U+023AD								<code>\rbracelend</code>	right curly bracket lower hook
U+023AE								<code>\intextender</code>	integral extension
U+023AF								<code>\harrowextender</code>	horizontal line extension (used to extend arrows)
U+023B2								<code>\sumtop</code>	summation top
U+023B3								<code>\sumbottom</code>	summation bottom
U+023B6								<code>\bbrktbrk</code>	bottom square bracket over top square bracket
U+023B7								<code>\sqrtbottom</code>	radical symbol bottom
U+023B8								<code>\lvboxline</code>	left vertical box line

USV	M	S	C	P	D	L	G	Macro	Description
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		⤿						\accurent	ac current
U+023E7		⚡						\elinters	electrical intersection
U+02422	␣	␣	␣	␣	␣			\blanksymbol	blank symbol
U+02423	␣	␣	␣	␣	␣	␣		\mathvisiblespace	open box
U+02506		⋮						\bdtriplevdash	doubly broken vert
U+02580		■						\blockuphalf	upper half block
U+02584		■						\blocklowhalf	lower half block
U+02588	■	■		■	■		■	\blockfull	full block
U+0258C		■						\blocklefthalf	left half block
U+02590		■						\blockrighthalf	right half block
U+02591	▤	▥		▧	▨			\blockqtrshaded	25% shaded block
U+02592	▩	▪		▬	▭			\blockhalfshaded	50% shaded block
U+02593	▮	▯		▱	▲			\blockthreeqtrshaded	75% shaded block
U+025A0	■	■	■	■	■	■	■	\mdlgblksquare	square, filled
U+025A1	□	□	□	□	□	□	□	\mdlgwhtsquare	square, open
U+025A2		◻						\squoval	white square with rounded corners
U+025A3		◻					■	\blackinwhitesquare	white square containing black small square
U+025A4		▧						\squarehfill	square, horizontal rule filled
U+025A5		▩						\squarevfill	square, vertical rule filled
U+025A6		▭						\squarehvfill	square with orthogonal crosshatch fill
U+025A7		▮						\squarenwsefill	square, nw-to-se rule filled
U+025A8		▯						\squareneswfill	square, ne-to-sw rule filled
U+025A9		▰						\squarecrossfill	square with diagonal crosshatch fill
U+025AA	▪	■	■	■	■		■	\smbksquare	/blacksquare - sq bullet, filled

USV	M	S	C	P	D	L	G	Macro	Description
U+025AB								<code>\smwhtsquare</code>	white small square
U+025AC								<code>\hrectangleblack</code>	black rectangle
U+025AD								<code>\hrectangle</code>	horizontal rectangle, open
U+025AE								<code>\vrectangleblack</code>	black vertical rectangle
U+025AF								<code>\vrectangle</code>	rectangle, white (vertical)
U+025B0								<code>\parallelogramblack</code>	black parallelogram
U+025B1								<code>\parallelogram</code>	parallelogram, open
U+025B2								<code>\bigblacktriangleup</code>	black up-pointing triangle
U+025B4								<code>\blacktriangle<sup>(a)</sup></code>	up triangle, filled
U+025B6								<code>\blacktriangleright<sup>(a)</sup></code>	(large) right triangle, filled
U+025B8								<code>\smallblacktriangleright</code>	right triangle, filled
U+025B9								<code>\smalltriangleright</code>	right triangle, open
U+025BA								<code>\blackpointerright</code>	black right-pointing pointer
U+025BB								<code>\whitepointerright</code>	white right-pointing pointer
U+025BC								<code>\bigblacktriangledown</code>	big down triangle, filled
U+025BD								<code>\bigtriangledown<sup>(p)</sup></code>	big down triangle, open
U+025BE								<code>\blacktriangledown<sup>(a)</sup></code>	down triangle, filled
U+025BF								<code>\triangledown<sup>(a)</sup></code>	down triangle, open
U+025C0								<code>\blacktriangleleft<sup>(a)</sup></code>	(large) left triangle, filled
U+025C2								<code>\smallblacktriangleleft</code>	left triangle, filled
U+025C3								<code>\smalltriangleleft</code>	left triangle, open
U+025C4								<code>\blackpointerleft</code>	black left-pointing pointer
U+025C5								<code>\whitepointerleft</code>	white left-pointing pointer
U+025C6								<code>\mdlgbldiamond</code>	black diamond
U+025C7								<code>\mdlgwhtdiamond</code>	white diamond; diamond, open
U+025C8								<code>\blackinwhitediamond</code>	white diamond containing black small diamond
U+025C9								<code>\fisheye</code>	fisheye
U+025CA								<code>\mdlgwhtlozenge</code>	lozenge or total mark
U+025CC								<code>\dottedcircle</code>	dotted circle
U+025CD								<code>\circlevertfill</code>	circle with vertical fill
U+025CE								<code>\bullseye</code>	bullseye
U+025CF								<code>\mdlgbkcircle</code>	circle, filled
U+025D0								<code>\circlelefthalfblack</code>	circle, filled left half [harvey ball]
U+025D1								<code>\circlerighthalfblack</code>	circle, filled right half

USV	M	S	C	P	D	L	G	Macro	Description
U+025D2								<code>\circlebottomhalfblack</code>	circle, filled bottom half
U+025D3								<code>\circletophalfblack</code>	circle, filled top half
U+025D4								<code>\circleurquadblack</code>	circle with upper right quadrant black
U+025D5								<code>\blackcircleulquadwhite</code>	circle with all but upper left quadrant black
U+025D6								<code>\blacklefthalfcircle</code>	left half black circle
U+025D7								<code>\blackrighthalfcircle</code>	right half black circle
U+025D8								<code>\inversebullet</code>	inverse bullet
U+025D9								<code>\inversewhitecircle</code>	inverse white circle
U+025DA								<code>\invwhiteupperhalfcircle</code>	upper half inverse white circle
U+025DB								<code>\invwhitelowerhalfcircle</code>	lower half inverse white circle
U+025DC								<code>\ularc</code>	upper left quadrant circular arc
U+025DD								<code>\urarc</code>	upper right quadrant circular arc
U+025DE								<code>\lrarc</code>	lower right quadrant circular arc
U+025DF								<code>\llarc</code>	lower left quadrant circular arc
U+025E0								<code>\topsemicircle</code>	upper half circle
U+025E1								<code>\botsemicircle</code>	lower half circle
U+025E2								<code>\lblacktriangle</code>	lower right triangle, filled
U+025E3								<code>\llblacktriangle</code>	lower left triangle, filled
U+025E4								<code>\ulblacktriangle</code>	upper left triangle, filled
U+025E5								<code>\urblacktriangle</code>	upper right triangle, filled
U+025E6								<code>\smwhtcircle</code>	white bullet
U+025E7								<code>\squareleftblack</code>	square, filled left half
U+025E8								<code>\squarerightblack</code>	square, filled right half
U+025E9								<code>\squareulblack</code>	square, filled top left corner
U+025EA								<code>\squarelrblack</code>	square, filled bottom right corner
U+025EC								<code>\trianglecdot</code>	triangle with centered dot
U+025ED								<code>\triangleleftblack</code>	up-pointing triangle with left half black
U+025EE								<code>\trianglerightblack</code>	up-pointing triangle with right half black
U+025EF								<code>\lgwhtcircle</code>	large circle
U+025F0								<code>\squareulquad</code>	white square with upper left quadrant
U+025F1								<code>\squarellquad</code>	white square with lower left quadrant

USV	M	S	C	P	D	L	G	Macro	Description
U+025F2								<code>\squarelrquad</code>	white square with lower right quadrant
U+025F3								<code>\squareurquad</code>	white square with upper right quadrant
U+025F4								<code>\circleulquad</code>	white circle with upper left quadrant
U+025F5								<code>\circlellquad</code>	white circle with lower left quadrant
U+025F6								<code>\circlelrquad</code>	white circle with lower right quadrant
U+025F7								<code>\circleurquad</code>	white circle with upper right quadrant
U+025F8								<code>\ultriangle</code>	upper left triangle
U+025F9								<code>\urtriangle</code>	upper right triangle
U+025FA								<code>\lltriangle</code>	lower left triangle
U+025FB								<code>\mdwhtsquare</code>	white medium square
U+025FC								<code>\mdblksquare</code>	black medium square
U+025FD								<code>\mdsmwhtsquare</code>	white medium small square
U+025FE								<code>\mdsmbllsquare</code>	black medium small square
U+025FF								<code>\lrtriangle</code>	lower right triangle
U+02605								<code>\bigstar<sup>(a)</sup></code>	star, filled
U+02606								<code>\bigwhitestar</code>	star, open
U+02609								<code>\astrosun</code>	sun
U+02621								<code>\danger</code>	dangerous bend (caution sign)
U+0263B								<code>\blacksmiley</code>	black smiling face
U+0263C								<code>\sun</code>	white sun with rays
U+0263D								<code>\rightmoon</code>	first quarter moon
U+0263E								<code>\leftmoon</code>	last quarter moon
U+02640								<code>\female</code>	venus, female
U+02642								<code>\male</code>	mars, male
U+02660								<code>\spadesuit<sup>(p)</sup></code>	spades suit symbol
U+02661								<code>\heartsuit<sup>(p)</sup></code>	heart suit symbol
U+02662								<code>\diamondsuit<sup>(p)</sup></code>	diamond suit symbol
U+02663								<code>\clubsuit<sup>(p)</sup></code>	club suit symbol
U+02664								<code>\varspadesuit</code>	spade, white (card suit)
U+02665								<code>\varheartsuit</code>	filled heart (card suit)
U+02666								<code>\vardiamondsuit</code>	filled diamond (card suit)
U+02667								<code>\varclubsuit</code>	club, white (card suit)

usv	M	S	C	P	D	L	G	Macro	Description
U+02669								<code>\quarternote</code>	music note (sung text sign)
U+0266A								<code>\eighthnote</code>	eighth note
U+0266B								<code>\twonotes</code>	beamed eighth notes
U+0266D								<code>\flat<sup>(p)</sup></code>	musical flat
U+0266E								<code>\natural<sup>(p)</sup></code>	music natural
U+0266F								<code>\sharp<sup>(p)</sup></code>	musical sharp
U+0267E								<code>\acidfree</code>	permanent paper sign
U+02680								<code>\dicei</code>	die face-1
U+02681								<code>\diceii</code>	die face-2
U+02682								<code>\diceiii</code>	die face-3
U+02683								<code>\diceiv</code>	die face-4
U+02684								<code>\dicev</code>	die face-5
U+02685								<code>\dicevi</code>	die face-6
U+02686								<code>\circledrightdot</code>	white circle with dot right
U+02687								<code>\circledtwodots</code>	white circle with two dots
U+02688								<code>\blackcircledrightdot</code>	black circle with white dot right
U+02689								<code>\blackcircledtwodots</code>	black circle with two white dots
U+026A5								<code>\Hermaphrodite</code>	male and female sign
U+026AA								<code>\mdwhtcircle</code>	medium white circle
U+026AB								<code>\mdblkcircle</code>	medium black circle
U+026AC								<code>\mdsmwhtcircle</code>	medium small white circle
U+026B2								<code>\neuter</code>	neuter
U+02713								<code>\checkmark</code>	tick, check mark
U+02720								<code>\maltese</code>	maltese cross
U+0272A								<code>\circledstar</code>	circled white star
U+02736								<code>\varstar</code>	six pointed black star
U+0273D								<code>\dingasterisk</code>	heavy teardrop-spoked asterisk
U+0279B								<code>\draftingarrow</code>	right arrow with bold head (drafting)
U+027C0								<code>\threeangle</code>	three dimensional angle
U+027C1								<code>\whiteinwhitetriangle</code>	white triangle containing small white triangle
U+027C3								<code>\subsetcirc</code>	open subset
U+027C4								<code>\supsetcirc</code>	open superset
U+027CB								<code>\diagup<sup>(a)</sup></code>	mathematical rising diagonal
U+027CD								<code>\diagdown<sup>(a)</sup></code>	mathematical falling diagonal

USV	M	S	C	P	D	L	G	Macro	Description
U+027D0		◊						<code>\diamondcdot</code>	white diamond with centred dot
U+0292B		✕						<code>\rdiagovfdiag</code>	rising diagonal crossing falling diagonal
U+0292C		✕						<code>\fdiagovrdiag</code>	falling diagonal crossing rising diagonal
U+0292D		↗						<code>\seovnearrow</code>	south east arrow crossing north east arrow
U+0292E		↘						<code>\neovsearrow</code>	north east arrow crossing south east arrow
U+0292F		↘						<code>\fdiagovnearrow</code>	falling diagonal crossing north east arrow
U+02930		↘						<code>\rdiagovsearrow</code>	rising diagonal crossing south east arrow
U+02931		↗						<code>\neovnwarrow</code>	north east arrow crossing north west arrow
U+02932		↗						<code>\nwovnearrow</code>	north west arrow crossing north east arrow
U+02934		↘						<code>\uprightcurvearrow</code>	arrow pointing rightwards then curving upwards
U+02935		↘						<code>\downrightcurvedarrow</code>	arrow pointing rightwards then curving downwards
U+02981		●	●					<code>\mdsmbkcircle</code>	z notation spot
U+02999		⋮						<code>\fourvdots</code>	dotted fence
U+0299A		⋈						<code>\vzigzag</code>	vertical zigzag line
U+0299B		∟						<code>\measuredangleleft</code>	measured angle opening left
U+0299C		⊥						<code>\rightanglesqr</code>	right angle variant with square
U+0299D		⊥						<code>\rightangledot</code>	measured right angle with dot
U+0299E		∠						<code>\angles</code>	angle with s inside
U+0299F		∠						<code>\angdnr</code>	acute angle
U+029A0		∠						<code>\gtlpar</code>	spherical angle opening left
U+029A1		∠						<code>\sphericalangleup</code>	spherical angle opening up
U+029A2		∠						<code>\turnangle</code>	turned angle
U+029A3		∠						<code>\revangle</code>	reversed angle
U+029A4		∠						<code>\angleubar</code>	angle with underbar
U+029A5		∠						<code>\revangleubar</code>	reversed angle with underbar
U+029A6		∠						<code>\wideangledown</code>	oblique angle opening up
U+029A7		∠						<code>\wideangleup</code>	oblique angle opening down
U+029A8		∠						<code>\measanglerutone</code>	measured angle with open arm ending in arrow pointing up and right

USV	M	S	C	P	D	L	G	Macro	Description
U+029A9								<code>\measanglelutonw</code>	measured angle with open arm ending in arrow pointing up and left
U+029AA								<code>\measanglerdtose</code>	measured angle with open arm ending in arrow pointing down and right
U+029AB								<code>\measangleldtosw</code>	measured angle with open arm ending in arrow pointing down and left
U+029AC								<code>\measangleurtone</code>	measured angle with open arm ending in arrow pointing right and up
U+029AD								<code>\measangleultonw</code>	measured angle with open arm ending in arrow pointing left and up
U+029AE								<code>\measangledrtose</code>	measured angle with open arm ending in arrow pointing right and down
U+029AF								<code>\measangledltosw</code>	measured angle with open arm ending in arrow pointing left and down
U+029B0								<code>\reemptyset</code>	reversed empty set
U+029B1								<code>\emptysetwithoverbar</code>	empty set with overbar
U+029B2								<code>\emptysetwithsmallcircleabove</code>	empty set with small circle above
U+029B3								<code>\emptysetwithrightarrowabove</code>	empty set with right arrow above
U+029B4								<code>\emptysetwithleftarrowabove</code>	empty set with left arrow above
U+029BA								<code>\obot</code>	circle divided by horizontal bar and top half divided by vertical bar
U+029BB								<code>\olcross</code>	circle with superimposed x
U+029BC								<code>\odotwithrotateddivision</code>	circled anticlockwise-rotated division sign
U+029BD								<code>\uparrowthroughcircle</code>	up arrow through circle
U+029BE								<code>\circledwhitebullet</code>	circled white bullet
U+029BF								<code>\circledbullet</code>	circled bullet
U+029C2								<code>\circwithsmallcircletotheright</code>	circle with small circle to the right
U+029C3								<code>\circwithtwohorizontalstrokes</code>	circle with two horizontal strokes to the right
U+029C9								<code>\boxonbox</code>	two joined squares
U+029CA								<code>\trianglewithdotabove</code>	triangle with dot above
U+029CB								<code>\trianglewithunderbar</code>	triangle with underbar
U+029CC								<code>\trianglewiths</code>	s in triangle
U+029DC								<code>\iinfin</code>	incomplete infinity

USV	M	S	C	P	D	L	G	Macro	Description
U+029DD								<code>\tieinfty</code>	tie over infinity
U+029DE								<code>\nvinfty</code>	infinity negated with vertical bar
U+029E0								<code>\laplac</code>	square with contoured outline
U+029E7								<code>\thermod</code>	thermodynamic
U+029E8								<code>\downtriangleleftblack</code>	down-pointing triangle with left half black
U+029E9								<code>\downtrianglerightblack</code>	down-pointing triangle with right half black
U+029EA								<code>\blackdiamonddownarrow</code>	black diamond with down arrow
U+029EC								<code>\circledownarrow</code>	white circle with down arrow
U+029ED								<code>\blackcircledownarrow</code>	black circle with down arrow
U+029EE								<code>\errbarsquare</code>	error-barred white square
U+029EF								<code>\errbarblacksquare</code>	error-barred black square
U+029F0								<code>\errbardiamond</code>	error-barred white diamond
U+029F1								<code>\errbarblackdiamond</code>	error-barred black diamond
U+029F2								<code>\errbarcircle</code>	error-barred white circle
U+029F3								<code>\errbarblackcircle</code>	error-barred black circle
U+02AE1								<code>\perps</code>	perpendicular with s
U+02AF1								<code>\topcir</code>	down tack with circle below
U+02B12								<code>\squaretopblack</code>	square with top half black
U+02B13								<code>\squarebotblack</code>	square with bottom half black
U+02B14								<code>\squareurblack</code>	square with upper right diagonal half black
U+02B15								<code>\squarellblack</code>	square with lower left diagonal half black
U+02B16								<code>\diamondleftblack</code>	diamond with left half black
U+02B17								<code>\diamondrightblack</code>	diamond with right half black
U+02B18								<code>\diamondtopblack</code>	diamond with top half black
U+02B19								<code>\diamondbotblack</code>	diamond with bottom half black
U+02B1A								<code>\dottedsquare</code>	dotted square
U+02B1B								<code>\lgblksquare</code>	black large square
U+02B1C								<code>\lgwhtsquare</code>	white large square
U+02B1D								<code>\vysmblksquare</code>	black very small square
U+02B1E								<code>\vysmwhtsquare</code>	white very small square
U+02B1F								<code>\pentagonblack</code>	black pentagon
U+02B20								<code>\pentagon</code>	white pentagon

USV	M	S	C	P	D	L	G	Macro	Description
U+02B21								<code>\varhexagon</code>	white hexagon
U+02B22								<code>\varhexagonblack</code>	black hexagon
U+02B23								<code>\hexagonblack</code>	horizontal black hexagon
U+02B24								<code>\lgblkcircle</code>	black large circle
U+02B25								<code>\mdblkdiamond</code>	black medium diamond
U+02B26								<code>\mdwhtdiamond</code>	white medium diamond
U+02B27								<code>\mdblklouenge</code>	black medium lozenge
U+02B28								<code>\mdwhtlozenge</code>	white medium lozenge
U+02B29								<code>\smbldiamond</code>	black small diamond
U+02B2A								<code>\smbklouenge</code>	black small lozenge
U+02B2B								<code>\smwhtlozenge</code>	white small lozenge
U+02B2C								<code>\blkhorzoval</code>	black horizontal ellipse
U+02B2D								<code>\whthorzoval</code>	white horizontal ellipse
U+02B2E								<code>\blkvertoval</code>	black vertical ellipse
U+02B2F								<code>\whtvertoval</code>	white vertical ellipse
U+02B50								<code>\medwhitestar</code>	white medium star
U+02B51								<code>\medblackstar</code>	black medium star
U+02B52								<code>\smwhitestar</code>	white small star
U+02B53								<code>\rightpentagonblack</code>	black right-pointing pentagon
U+02B54								<code>\rightpentagon</code>	white right-pointing pentagon
U+03012								<code>\postalmark</code>	postal mark
U+03030								<code>\hzigzag</code>	zigzag
U+1D7CE	<b>0</b>	0	0	0	0	0	0	<code>\mbfzero</code>	mathematical bold digit 0
U+1D7CF	<b>1</b>	1	1	1	1	1	1	<code>\mbfone</code>	mathematical bold digit 1
U+1D7D0	<b>2</b>	2	2	2	2	2	2	<code>\mbftwo</code>	mathematical bold digit 2
U+1D7D1	<b>3</b>	3	3	3	3	3	3	<code>\mbfthree</code>	mathematical bold digit 3
U+1D7D2	<b>4</b>	4	4	4	4	4	4	<code>\mbffour</code>	mathematical bold digit 4
U+1D7D3	<b>5</b>	5	5	5	5	5	5	<code>\mbffive</code>	mathematical bold digit 5
U+1D7D4	<b>6</b>	6	6	6	6	6	6	<code>\mbfsix</code>	mathematical bold digit 6
U+1D7D5	<b>7</b>	7	7	7	7	7	7	<code>\mbfseven</code>	mathematical bold digit 7
U+1D7D6	<b>8</b>	8	8	8	8	8	8	<code>\mbfeight</code>	mathematical bold digit 8
U+1D7D7	<b>9</b>	9	9	9	9	9	9	<code>\mbfnine</code>	mathematical bold digit 9
U+1D7D8	<b>0</b>	0	0	0	0	0	0	<code>\Bbbzero</code>	mathematical double-struck digit 0
U+1D7D9	<b>1</b>	1	1	1	1	1	1	<code>\Bbbone</code>	mathematical double-struck digit 1

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

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

## 14 Relation symbols, `\mathrel`

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

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

USV	M	S	C	P	D	L	G	Macro	Description
U+021C4								<code>\rightleftarrows<sup>(a)</sup></code>	right arrow over left arrow
U+021C5								<code>\updownarrows</code>	up arrow, down arrow
U+021C6								<code>\leftrightharpoons<sup>(a)</sup></code>	left arrow over right arrow
U+021C7								<code>\leftleftarrows<sup>(a)</sup></code>	two left arrows
U+021C8								<code>\upuparrows<sup>(a)</sup></code>	two up arrows
U+021C9								<code>\rightrightarrows<sup>(a)</sup></code>	two right arrows
U+021CA								<code>\downdownarrows<sup>(a)</sup></code>	two down arrows
U+021CB								<code>\leftrightharpoons<sup>(a)</sup></code>	left harpoon over right
U+021CC								<code>\rightleftharpoons<sup>(l)</sup></code>	right harpoon over left
U+021CD								<code>\nLeftarrow<sup>(a)</sup></code>	not implied by
U+021CE								<code>\nLeftrightarrow<sup>(a)</sup></code>	not left and right double arrows
U+021CF								<code>\nRightarrow<sup>(a)</sup></code>	not implies
U+021D0								<code>\Leftrightarrow<sup>(p)</sup></code>	is implied by
U+021D1								<code>\Uparrow<sup>(p)</sup></code>	up double arrow
U+021D2								<code>\Rightarrow<sup>(p)</sup></code>	implies
U+021D3								<code>\Downarrow<sup>(p)</sup></code>	down double arrow
U+021D4								<code>\Leftrightarrow<sup>(p)</sup></code>	left and right double arrow
U+021D5								<code>\Updownarrow<sup>(p)</sup></code>	up and down double arrow
U+021D6								<code>\Nwarrow</code>	nw pointing double arrow
U+021D7								<code>\Nearrow</code>	ne pointing double arrow
U+021D8								<code>\Searrow</code>	se pointing double arrow
U+021D9								<code>\Swarrow</code>	sw pointing double arrow
U+021DA								<code>\Lleftarrow<sup>(a)</sup></code>	left triple arrow
U+021DB								<code>\Rrightarrow<sup>(a)</sup></code>	right triple arrow
U+021DC								<code>\leftsquigarrow</code>	leftwards squiggle arrow
U+021DD								<code>\rightsquigarrow<sup>(a)</sup></code>	rightwards squiggle arrow
U+021E4								<code>\barleftarrow</code>	leftwards arrow to bar
U+021E5								<code>\rightrightarrowbar</code>	rightwards arrow to bar
U+021F4								<code>\circlearrowright</code>	right arrow with small circle
U+021F5								<code>\downuparrows</code>	downwards arrow leftwards of upwards arrow
U+021F6								<code>\rightthreearrows</code>	three rightwards arrows
U+021F7								<code>\nvleftarrow</code>	leftwards arrow with vertical stroke
U+021F8								<code>\nvrightarrow</code>	rightwards arrow with vertical stroke

USV	M	S	C	P	D	L	G	Macro	Description
U+021F9		↔				↔	↔	<code>\nlefttrightarrow</code>	left right arrow with vertical stroke
U+021FA		⇐				⇐	⇐	<code>\nleftarrow</code>	leftwards arrow with double vertical stroke
U+021FB		⇒				⇒	⇒	<code>\nrightarrow</code>	rightwards arrow with double vertical stroke
U+021FC		↔				↔	↔	<code>\nlefttrightarrow</code>	left right arrow with double vertical stroke
U+021FD		←				←	←	<code>\leftarrowtriangle</code>	leftwards open-headed arrow
U+021FE		→				→	→	<code>\rightarrowtriangle</code>	rightwards open-headed arrow
U+021FF		↔				↔	↔	<code>\leftrightarrowtriangle</code>	left right open-headed arrow
U+02208	∈	∈	∈	∈	∈	∈	∈	<code>\in<sup>(p)</sup></code>	set membership, variant
U+02209	∉	∉	∉	∉	∉	∉	∉	<code>\notin<sup>(l)</sup></code>	negated set membership
U+0220A	∈	∈	∈	∈	∈	∈	∈	<code>\smallin</code>	set membership (small set membership)
U+0220B	⊃	⊃	⊃	⊃	⊃	⊃	⊃	<code>\ni<sup>(p)</sup></code>	contains, variant
U+0220C	⊄	⊄	⊄	⊄	⊄	⊄	⊄	<code>\nni</code>	negated contains, variant
U+0220D	⊃	⊃	⊃	⊃	⊃	⊃	⊃	<code>\smallni</code>	/ni /owns r: contains (small contains as member)
U+0221D	∝	∝	∝	∝	∝	∝	∝	<code>\propto<sup>(p)</sup></code>	is proportional to
U+02223	|	|	|	|	|	|	|	<code>\mid<sup>(p)</sup></code>	/mid r:
U+02224	∤	∤	∤	∤	∤	∤	∤	<code>\nmid<sup>(a)</sup></code>	negated mid
U+02225	∥	∥	∥	∥	∥	∥	∥	<code>\parallel<sup>(p)</sup></code>	parallel
U+02226	∦	∦	∦	∦	∦	∦	∦	<code>\nparallel<sup>(a)</sup></code>	not parallel
U+02236	:	:	:	:	:	:	:	<code>\mathratio</code>	ratio
U+02237	::	::	::	::	::	::	::	<code>\Colon</code>	two colons
U+02239	∶	∶	∶	∶	∶	∶	∶	<code>\dashcolon</code>	excess (∶)
U+0223A	∴	∴	∴	∴	∴	∴	∴	<code>\dotsminusdots</code>	minus with four dots, geometric properties
U+0223B	∝	∝	∝	∝	∝	∝	∝	<code>\kernelcontraction</code>	homothetic
U+0223C	≈	≈	≈	≈	≈	≈	≈	<code>\sim<sup>(p)</sup></code>	similar
U+0223D	≈	≈	≈	≈	≈	≈	≈	<code>\backsim<sup>(a)</sup></code>	reverse similar
U+02241	≇	≇	≇	≇	≇	≇	≇	<code>\nsim<sup>(a)</sup></code>	not similar
U+02242	≈	≈	≈	≈	≈	≈	≈	<code>\eqsim<sup>(a)</sup></code>	equals, similar
U+02243	≈	≈	≈	≈	≈	≈	≈	<code>\simeq<sup>(p)</sup></code>	similar, equals
U+02244	≇	≇	≇	≇	≇	≇	≇	<code>\nsime</code>	not similar, equals
U+02243	≈	≈	≈	≈	≈	≈	≈	<code>\sime</code>	similar, equals (alias)
U+02244	≇	≇	≇	≇	≇	≇	≇	<code>\nsimeq</code>	not similar, equals (alias)

USV	M	S	C	P	D	L	G	Macro	Description
U+02245								<code>\cong<sup>(l)</sup></code>	congruent with
U+02246								<code>\simneq</code>	similar, not equals [vert only for 9573 entity]
U+02247								<code>\ncong<sup>(a)</sup></code>	not congruent with
U+02248								<code>\approx<sup>(p)</sup></code>	approximate
U+02249								<code>\napprox</code>	not approximate
U+0224A								<code>\approxeq<sup>(a)</sup></code>	approximate, equals
U+0224B								<code>\approxident</code>	approximately identical to
U+0224C								<code>\backcong</code>	all equal to
U+0224D								<code>\asymp<sup>(p)</sup></code>	asymptotically equal to
U+0224E								<code>\Bumpeq<sup>(a)</sup></code>	bumpy equals
U+0224F								<code>\bumpeq<sup>(a)</sup></code>	bumpy equals, equals
U+02250								<code>\doteq<sup>(l)</sup></code>	equals, single dot above
U+02251								<code>\Doteq<sup>(a)</sup></code>	/doteqdot /doteq r: equals, even dots
U+02252								<code>\fallingdotseq<sup>(a)</sup></code>	equals, falling dots
U+02253								<code>\risingdotseq<sup>(a)</sup></code>	equals, rising dots
U+02254								<code>\coloneq</code>	colon, equals
U+02255								<code>\eqcolon</code>	equals, colon
U+02256								<code>\eqcirc<sup>(a)</sup></code>	circle on equals sign
U+02257								<code>\circeq<sup>(a)</sup></code>	circle, equals
U+02258								<code>\arceq</code>	arc, equals; corresponds to
U+02259								<code>\wedgeq</code>	corresponds to (wedge, equals)
U+0225A								<code>\veeeq</code>	logical or, equals
U+0225B								<code>\stareq</code>	star equals
U+0225C								<code>\triangleq<sup>(a)</sup></code>	triangle, equals
U+0225D								<code>\eqdef</code>	equals by definition
U+0225E								<code>\measeq</code>	measured by (m over equals)
U+0225F								<code>\questeq</code>	equal with questionmark
U+02260								<code>\ne<sup>(p)</sup></code>	/ne /neq r: not equal
U+02261								<code>\equiv<sup>(p)</sup></code>	identical with
U+02262								<code>\nequiv</code>	not identical with
U+02263								<code>\Equiv</code>	strict equivalence (4 lines)
U+02264								<code>\leq<sup>(p)</sup></code>	/leq /le r: less-than-or-equal
U+02265								<code>\geq<sup>(p)</sup></code>	/geq /ge r: greater-than-or-equal

USV	M	S	C	P	D	L	G	Macro	Description
U+02266	$\leq$	\leq	\leq	\leq	\leq	\leq	\leq	<code>\leqq<sup>(a)</sup></code>	less, double equals
U+02267	$\geq$	\geq	\geq	\geq	\geq	\geq	\geq	<code>\geqq<sup>(a)</sup></code>	greater, double equals
U+02268	$\nless$	\nless	\nless	\nless	\nless	\nless	\nless	<code>\lneqq<sup>(a)</sup></code>	less, not double equals
U+02269	$\ngtr$	\ngtr	\ngtr	\ngtr	\ngtr	\ngtr	\ngtr	<code>\gneqq<sup>(a)</sup></code>	greater, not double equals
U+0226A	$\ll$	\ll	\ll	\ll	\ll	\ll	\ll	<code>\ll<sup>(p)</sup></code>	much less than, type 2
U+0226B	$\gg$	\gg	\gg	\gg	\gg	\gg	\gg	<code>\gg<sup>(p)</sup></code>	much greater than, type 2
U+0226C	$\between$	\between	\between	\between	\between	\between	\between	<code>\between<sup>(a)</sup></code>	between
U+0226D	$\asymp$	\asymp	\asymp	\asymp	\asymp	\asymp	\asymp	<code>\asymp</code>	not asymptotically equal to
U+0226E	$\nless$	\nless	\nless	\nless	\nless	\nless	\nless	<code>\nless<sup>(a)</sup></code>	not less-than
U+0226F	$\ngtr$	\ngtr	\ngtr	\ngtr	\ngtr	\ngtr	\ngtr	<code>\ngtr<sup>(a)</sup></code>	not greater-than
U+02270	$\nleq$	\nleq	\nleq	\nleq	\nleq	\nleq	\nleq	<code>\nleq<sup>(a)</sup></code>	not less-than-or-equal
U+02271	$\ngeq$	\ngeq	\ngeq	\ngeq	\ngeq	\ngeq	\ngeq	<code>\ngeq<sup>(a)</sup></code>	not greater-than-or-equal
U+02272	$\lesssim$	\lesssim	\lesssim	\lesssim	\lesssim	\lesssim	\lesssim	<code>\lesssim<sup>(a)</sup></code>	less, similar
U+02273	$\gtrsim$	\gtrsim	\gtrsim	\gtrsim	\gtrsim	\gtrsim	\gtrsim	<code>\gtrsim<sup>(a)</sup></code>	greater, similar
U+02274	$\nlesssim$	\nlesssim	\nlesssim	\nlesssim	\nlesssim	\nlesssim	\nlesssim	<code>\nlesssim</code>	not less, similar
U+02275	$\ngtrsim$	\ngtrsim	\ngtrsim	\ngtrsim	\ngtrsim	\ngtrsim	\ngtrsim	<code>\ngtrsim</code>	not greater, similar
U+02276	$\lessgtr$	\lessgtr	\lessgtr	\lessgtr	\lessgtr	\lessgtr	\lessgtr	<code>\lessgtr<sup>(a)</sup></code>	less, greater
U+02277	$\gtrless$	\gtrless	\gtrless	\gtrless	\gtrless	\gtrless	\gtrless	<code>\gtrless<sup>(a)</sup></code>	greater, less
U+02278	$\nlessgtr$	\nlessgtr	\nlessgtr	\nlessgtr	\nlessgtr	\nlessgtr	\nlessgtr	<code>\nlessgtr</code>	not less, greater
U+02279	$\ngtrless$	\ngtrless	\ngtrless	\ngtrless	\ngtrless	\ngtrless	\ngtrless	<code>\ngtrless</code>	not greater, less
U+0227A	$\prec$	\prec	\prec	\prec	\prec	\prec	\prec	<code>\prec<sup>(p)</sup></code>	precedes
U+0227B	$\succ$	\succ	\succ	\succ	\succ	\succ	\succ	<code>\succ<sup>(p)</sup></code>	succeeds
U+0227C	$\preccurlyeq$	\preccurlyeq	\preccurlyeq	\preccurlyeq	\preccurlyeq	\preccurlyeq	\preccurlyeq	<code>\preccurlyeq<sup>(a)</sup></code>	precedes, curly equals
U+0227D	$\succcurlyeq$	\succcurlyeq	\succcurlyeq	\succcurlyeq	\succcurlyeq	\succcurlyeq	\succcurlyeq	<code>\succcurlyeq<sup>(a)</sup></code>	succeeds, curly equals
U+0227E	$\precsim$	\precsim	\precsim	\precsim	\precsim	\precsim	\precsim	<code>\precsim<sup>(a)</sup></code>	precedes, similar
U+0227F	$\succsim$	\succsim	\succsim	\succsim	\succsim	\succsim	\succsim	<code>\succsim<sup>(a)</sup></code>	succeeds, similar
U+02280	$\nprec$	\nprec	\nprec	\nprec	\nprec	\nprec	\nprec	<code>\nprec<sup>(a)</sup></code>	not precedes
U+02281	$\nsucc$	\nsucc	\nsucc	\nsucc	\nsucc	\nsucc	\nsucc	<code>\nsucc<sup>(a)</sup></code>	not succeeds
U+02282	$\subset$	\subset	\subset	\subset	\subset	\subset	\subset	<code>\subset<sup>(p)</sup></code>	subset or is implied by
U+02283	$\supset$	\supset	\supset	\supset	\supset	\supset	\supset	<code>\supset<sup>(p)</sup></code>	superset or implies
U+02284	$\nsubset$	\nsubset	\nsubset	\nsubset	\nsubset	\nsubset	\nsubset	<code>\nsubset</code>	not subset, variant [slash negation]
U+02285	$\nsupset$	\nsupset	\nsupset	\nsupset	\nsupset	\nsupset	\nsupset	<code>\nsupset</code>	not superset, variant [slash negation]
U+02286	$\subseteq$	\subseteq	\subseteq	\subseteq	\subseteq	\subseteq	\subseteq	<code>\subseteq<sup>(p)</sup></code>	subset, equals
U+02287	$\supseteq$	\supseteq	\supseteq	\supseteq	\supseteq	\supseteq	\supseteq	<code>\supseteq<sup>(p)</sup></code>	superset, equals

USV	M	S	C	P	D	L	G	Macro	Description
U+02288								$\nsubseteq^{(a)}$	not subset, equals
U+02289								$\nsupseteq^{(a)}$	not superset, equals
U+0228A								$\subsetneq^{(a)}$	subset, not equals
U+0228B								$\supsetneq^{(a)}$	superset, not equals
U+0228F								$\sqsubset$	square subset
U+02290								$\sqsupset$	square superset
U+02291								$\sqsubseteq^{(p)}$	square subset, equals
U+02292								$\sqsupseteq^{(p)}$	square superset, equals
U+022A2								$\vdash^{(p)}$	vertical, dash
U+022A3								$\dashv^{(p)}$	dash, vertical
U+022A6								$\vDash$	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								$\preceq$	element precedes under relation
U+022B1								$\succeq$	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

USV	M	S	C	P	D	L	G	Macro	Description
U+022D5	≡	≡	≡	≡	≡		≡	<code>\equalparallel</code>	parallel, equal; equal or parallel
U+022D6	≠	≠	≠	≠	≠	≠	≠	<code>\lessdot<sup>(a)</sup></code>	less than, with dot
U+022D7	≠	≠	≠	≠	≠	≠	≠	<code>\gtrdot<sup>(a)</sup></code>	greater than, with dot
U+022D8	≠	≠	≠	≠	≠	≠	≠	<code>\lll<sup>(a)</sup></code>	/ll /lll /llless r: triple less-than
U+022D9	≠	≠	≠	≠	≠	≠	≠	<code>\ggg<sup>(a)</sup></code>	/ggg /gg /gggtr r: triple greater-than
U+022DA	≠	≠	≠	≠	≠	≠	≠	<code>\lesseqgtr<sup>(a)</sup></code>	less, equals, greater
U+022DB	≠	≠	≠	≠	≠	≠	≠	<code>\gtreqless<sup>(a)</sup></code>	greater, equals, less
U+022DC	≠	≠	≠	≠	≠	≠	≠	<code>\eqless</code>	equal-or-less
U+022DD	≠	≠	≠	≠	≠	≠	≠	<code>\eqgtr</code>	equal-or-greater
U+022DE	≠	≠	≠	≠	≠	≠	≠	<code>\curlyeqprec<sup>(a)</sup></code>	curly equals, precedes
U+022DF	≠	≠	≠	≠	≠	≠	≠	<code>\curlyeqsucc<sup>(a)</sup></code>	curly equals, succeeds
U+022E0	≠	≠	≠	≠	≠	≠	≠	<code>\nprec curlyeq</code>	not precedes, curly equals
U+022E1	≠	≠	≠	≠	≠	≠	≠	<code>\succ curlyeq</code>	not succeeds, curly equals
U+022E2	≠	≠	≠	≠	≠	≠	≠	<code>\nsqsubseteq</code>	not, square subset, equals
U+022E3	≠	≠	≠	≠	≠	≠	≠	<code>\nsqsupseteq</code>	not, square superset, equals
U+022E4	≠	≠	≠	≠	≠	≠	≠	<code>\sqsubseteq neq</code>	square subset, not equals
U+022E5	≠	≠	≠	≠	≠	≠	≠	<code>\sqsupseteq neq</code>	square superset, not equals
U+022E6	≠	≠	≠	≠	≠	≠	≠	<code>\lnsim<sup>(a)</sup></code>	less, not similar
U+022E7	≠	≠	≠	≠	≠	≠	≠	<code>\gnsim<sup>(a)</sup></code>	greater, not similar
U+022E8	≠	≠	≠	≠	≠	≠	≠	<code>\precnsim<sup>(a)</sup></code>	precedes, not similar
U+022E9	≠	≠	≠	≠	≠	≠	≠	<code>\succnsim<sup>(a)</sup></code>	succeeds, not similar
U+022EA	≠	≠	≠	≠	≠	≠	≠	<code>\nvartriangleleft</code>	not left triangle
U+022EB	≠	≠	≠	≠	≠	≠	≠	<code>\nvartriangleright</code>	not right triangle
U+022EC	≠	≠	≠	≠	≠	≠	≠	<code>\ntrianglelefteq<sup>(a)</sup></code>	not left triangle, equals
U+022ED	≠	≠	≠	≠	≠	≠	≠	<code>\ntrianglerighteq<sup>(a)</sup></code>	not right triangle, equals
U+022EE	⋮	⋮	⋮	⋮	⋮	⋮	⋮	<code>\vdots<sup>(p)</sup></code>	vertical ellipsis
U+022F0	⋯	⋯	⋯	⋯	⋯	⋯	⋯	<code>\adots</code>	three dots, ascending
U+022F1	⋯	⋯	⋯	⋯	⋯	⋯	⋯	<code>\ddots<sup>(p)</sup></code>	three dots, descending
U+022F2		⊖						<code>\disin</code>	element of with long horizontal stroke
U+022F3		⊖						<code>\varisins</code>	element of with vertical bar at end of horizontal stroke
U+022F4		⊖						<code>\isins</code>	small element of with vertical bar at end of horizontal stroke
U+022F5		⊖						<code>\isindot</code>	element of with dot above
U+022F6		⊖						<code>\varisinobar</code>	element of with overbar

USV	M	S	C	P	D	L	G	Macro	Description
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 <sup>(p)</sup>	down curve
U+02323	⤴	⤵	⤶	⤷	⤸	⤹	⤺	\smile <sup>(p)</sup>	up curve
U+0233F		∕						\APLnotslash	solidus, bar through (apl functional symbol slash bar)
U+025B5		△	△					\vartriangle <sup>(a)</sup>	/triangle - up triangle, open
U+027C2	⊥	⊥	⊥	⊥	⊥	⊥	⊥	\perp <sup>(p)</sup>	perpendicular
U+027C8		⊂						\bsolhsb	reverse solidus preceding subset
U+027C9		⊃						\supsol	superset preceding solidus
U+027D2		⤴						\upin	element of opening upwards
U+027D3		⤵						\pullback	lower right corner with dot
U+027D4		⤶						\pushout	upper left corner with dot
U+027DA	⌘	⌘	⌘	⌘	⌘		⌘	\DashVDash	left and right double turnstile
U+027DB	⌘	⌘	⌘	⌘	⌘		⌘	\dashVdash	left and right tack
U+027DC	⌘	⌘	⌘	⌘	⌘		⌘	\multimapinv	left multimap
U+027DD	⌘	⌘	⌘	⌘	⌘		⌘	\vlongdash	long left tack
U+027DE	⌘	⌘	⌘	⌘	⌘		⌘	\longdashv	long right tack
U+027DF		⌘						\cirbot	up tack with circle above
U+027F0		⤴						\UUparrow	upwards quadruple arrow
U+027F1		⤵						\DDownarrow	downwards quadruple arrow
U+027F2		⤶				⤶	⤶	\acwgapcirclearrow	anticlockwise gapped circle arrow
U+027F3		⤷				⤷	⤷	\cwgapcirclearrow	clockwise gapped circle arrow
U+027F4	⊕	⊕	⊕	⊕	⊕			\rightarrowonoplus	right arrow with circled plus
U+027F5	←	←	←	←	←	←	←	\longleftarrow <sup>(p)</sup>	long leftwards arrow
U+027F6	→	→	→	→	→	→	→	\longrightarrow <sup>(p)</sup>	long rightwards arrow

USV	M	S	C	P	D	L	G	Macro	Description
U+027F7								<code>\longlefttrightarrow<sup>(p)</sup></code>	long left right arrow
U+027F8								<code>\Longleftarrow<sup>(p)</sup></code>	long leftwards double arrow
U+027F9								<code>\Longrightarrow<sup>(p)</sup></code>	long rightwards double arrow
U+027FA								<code>\Longlefttrightarrow<sup>(p)</sup></code>	long left right double arrow
U+027FB								<code>\longmapsfrom</code>	long leftwards arrow from bar
U+027FC								<code>\longmapsto<sup>(p)</sup></code>	long rightwards arrow from bar
U+027FD								<code>\Longmapsfrom</code>	long leftwards double arrow from bar
U+027FE								<code>\Longmapsto</code>	long rightwards double arrow from bar
U+027FF								<code>\longrightsquigarrow</code>	long rightwards squiggle arrow
U+02900								<code>\nvtwoheadrightarrow</code>	rightwards two-headed arrow with vertical stroke
U+02901								<code>\nVtwoheadrightarrow</code>	rightwards two-headed arrow with double vertical stroke
U+02902								<code>\nvLeftarrow</code>	leftwards double arrow with vertical stroke
U+02903								<code>\nvRrightarrow</code>	rightwards double arrow with vertical stroke
U+02904								<code>\nvLefttrightarrow</code>	left right double arrow with vertical stroke
U+02905								<code>\twoheadmapsto</code>	rightwards two-headed arrow from bar
U+02906								<code>\Mapsfrom</code>	leftwards double arrow from bar
U+02907								<code>\Mapsto</code>	rightwards double arrow from bar
U+02908								<code>\downarrowbarred</code>	downwards arrow with horizontal stroke
U+02909								<code>\uparrowbarred</code>	upwards arrow with horizontal stroke
U+0290A								<code>\Uparrow</code>	upwards triple arrow
U+0290B								<code>\Ddownarrow</code>	downwards triple arrow
U+0290C								<code>\leftbkarrow</code>	leftwards double dash arrow
U+0290D								<code>\rightbkarrow</code>	rightwards double dash arrow
U+0290E								<code>\leftdbkarrow</code>	leftwards triple dash arrow
U+0290F								<code>\dbkarrow</code>	rightwards triple dash arrow
U+02910								<code>\drbkarrow</code>	rightwards two-headed triple dash arrow
U+02911								<code>\rightdotarrow</code>	rightwards arrow with dotted stem
U+02912								<code>\baruparrow</code>	upwards arrow to bar
U+02913								<code>\downarrowbar</code>	downwards arrow to bar

usv	M	S	C	P	D	L	G	Macro	Description
U+02914		↗						<code>\nrightharrowtail</code>	rightwards arrow with tail with vertical stroke
U+02915		↘						<code>\nVrightharrowtail</code>	rightwards arrow with tail with double vertical stroke
U+02916		↔						<code>\twoheadrightarrowtail</code>	rightwards two-headed arrow with tail
U+02917		↔						<code>\nvtwoheadrightarrowtail</code>	rightwards two-headed arrow with tail with vertical stroke
U+02918		↔						<code>\nVtwoheadrightarrowtail</code>	rightwards two-headed arrow with tail with double vertical stroke
U+02919		←						<code>\lefttail</code>	leftwards arrow-tail
U+0291A		→						<code>\righttail</code>	rightwards arrow-tail
U+0291B		↔						<code>\leftdbltail</code>	leftwards double arrow-tail
U+0291C		↔						<code>\rightdbltail</code>	rightwards double arrow-tail
U+0291D		↖						<code>\diamondleftarrow</code>	leftwards arrow to black diamond
U+0291E		→						<code>\rightrightarrow</code>	rightwards arrow to black diamond
U+0291F		↖						<code>\diamondleftarrowbar</code>	leftwards arrow from bar to black diamond
U+02920		↗						<code>\barrightrightarrow</code>	rightwards arrow from bar to black diamond
U+02921		↖						<code>\nwsearrow</code>	north west and south east arrow
U+02922		↗						<code>\neswarrow</code>	north east and south west arrow
U+02923		↖						<code>\hknwarrow</code>	north west arrow with hook
U+02924		↗						<code>\hknearrow</code>	north east arrow with hook
U+02925		↘						<code>\hksearrow</code>	south east arrow with hook
U+02926		↙						<code>\hkswarrow</code>	south west arrow with hook
U+02927		↔						<code>\tona</code>	north west arrow and north east arrow
U+02928		↔						<code>\toea</code>	north east arrow and south east arrow
U+02929		↔						<code>\tosa</code>	south east arrow and south west arrow
U+0292A		↔						<code>\towa</code>	south west arrow and north west arrow
U+02933		→						<code>\rightcurvedarrow</code>	wave arrow pointing directly right
U+02936		↙						<code>\leftdowncurvedarrow</code>	arrow pointing downwards then curving leftwards
U+02937		↘						<code>\rightdowncurvedarrow</code>	arrow pointing downwards then curving rightwards
U+02938		↻						<code>\cwrightarcarrow</code>	right-side arc clockwise arrow
U+02939		↺						<code>\acwleftarcarrow</code>	left-side arc anticlockwise arrow

USV	M	S	C	P	D	L	G	Macro	Description
U+0293A								<code>\acwoverarcarrow</code>	top arc anticlockwise arrow
U+0293B								<code>\acwunderarcarrow</code>	bottom arc anticlockwise arrow
U+0293C								<code>\curvearrowrightminus</code>	top arc clockwise arrow with minus
U+0293D								<code>\curvearrowleftplus</code>	top arc anticlockwise arrow with plus
U+0293E								<code>\cwundercurvearrow</code>	lower right semicircular clockwise arrow
U+0293F								<code>\ccwundercurvearrow</code>	lower left semicircular anticlockwise arrow
U+02940								<code>\acwcirclearrow</code>	anticlockwise closed circle arrow
U+02941								<code>\cwcirclearrow</code>	clockwise closed circle arrow
U+02942								<code>\rightarrowshortleftarrow</code>	rightwards arrow above short leftwards arrow
U+02943								<code>\leftarrowshortrightarrow</code>	leftwards arrow above short rightwards arrow
U+02944								<code>\shortrightarrowleftarrow</code>	short rightwards arrow above leftwards arrow
U+02945								<code>\rightarrowplus</code>	rightwards arrow with plus below
U+02946								<code>\leftarrowplus</code>	leftwards arrow with plus below
U+02947								<code>\rightarrowx</code>	rightwards arrow through x
U+02948								<code>\leftrightarrowcircle</code>	left right arrow through small circle
U+02949								<code>\twoheaduparrowcircle</code>	upwards two-headed arrow from small circle
U+0294A								<code>\leftrightharpoonupdown</code>	left barb up right barb down harpoon
U+0294B								<code>\leftrightharpoondownup</code>	left barb down right barb up harpoon
U+0294C								<code>\updownharpoonrightleft</code>	up barb right down barb left harpoon
U+0294D								<code>\updownharpoonleftright</code>	up barb left down barb right harpoon
U+0294E								<code>\leftrightharpoonupup</code>	left barb up right barb up harpoon
U+0294F								<code>\updownharpoonrightright</code>	up barb right down barb right harpoon
U+02950								<code>\leftrightharpoondowndown</code>	left barb down right barb down harpoon
U+02951								<code>\updownharpoonleftleft</code>	up barb left down barb left harpoon
U+02952								<code>\barleftarrowharpoonup</code>	leftwards harpoon with barb up to bar

usv	M	S	C	P	D	L	G	Macro	Description
U+02953		→						<code>\rightharpoonupbar</code>	rightwards harpoon with barb up to bar
U+02954		↑						<code>\barupharpoonright</code>	upwards harpoon with barb right to bar
U+02955		↓						<code>\downharpoonrightbar</code>	downwards harpoon with barb right to bar
U+02956		←						<code>\barleftharpoondown</code>	leftwards harpoon with barb down to bar
U+02957		→						<code>\rightharpoondownbar</code>	rightwards harpoon with barb down to bar
U+02958		↑						<code>\barupharpoonleft</code>	upwards harpoon with barb left to bar
U+02959		↓						<code>\downharpoonleftbar</code>	downwards harpoon with barb left to bar
U+0295A		←						<code>\leftharpoonupbar</code>	leftwards harpoon with barb up from bar
U+0295B		→						<code>\barriightharpoonup</code>	rightwards harpoon with barb up from bar
U+0295C		↑						<code>\upharpoonrightbar</code>	upwards harpoon with barb right from bar
U+0295D		↓						<code>\bardownharpoonright</code>	downwards harpoon with barb right from bar
U+0295E		←						<code>\leftharpoondownbar</code>	leftwards harpoon with barb down from bar
U+0295F		→						<code>\barriightharpoondown</code>	rightwards harpoon with barb down from bar
U+02960		↑						<code>\upharpoonleftbar</code>	upwards harpoon with barb left from bar
U+02961		↓						<code>\bardownharpoonleft</code>	downwards harpoon with barb left from bar
U+02962		⇐						<code>\leftharpoonsupdown</code>	leftwards harpoon with barb up above leftwards harpoon with barb down
U+02963		⇑						<code>\upharpoonsleftright</code>	upwards harpoon with barb left beside upwards harpoon with barb right
U+02964		⇒						<code>\rightharpoonsupdown</code>	rightwards harpoon with barb up above rightwards harpoon with barb down
U+02965		⇓						<code>\downharpoonsleftright</code>	downwards harpoon with barb left beside downwards harpoon with barb right
U+02966		⇐						<code>\leftrightharpoonsup</code>	leftwards harpoon with barb up above rightwards harpoon with barb up
U+02967		⇓						<code>\leftrightharpoonsdown</code>	leftwards harpoon with barb down above rightwards harpoon with barb down
U+02968		⇒						<code>\rightleftharpoonsup</code>	rightwards harpoon with barb up above leftwards harpoon with barb up

usv	M	S	C	P	D	L	G	Macro	Description
U+02969								<code>\rightleftharpoonsdown</code>	rightwards harpoon with barb down above leftwards harpoon with barb down
U+0296A								<code>\leftharpoonupdash</code>	leftwards harpoon with barb up above long dash
U+0296B								<code>\dashleftharpoondown</code>	leftwards harpoon with barb down below long dash
U+0296C								<code>\rightharpoonupdash</code>	rightwards harpoon with barb up above long dash
U+0296D								<code>\dashrightharpoondown</code>	rightwards harpoon with barb down below long dash
U+0296E								<code>\updownharpoonsleftright</code>	upwards harpoon with barb left beside downwards harpoon with barb right
U+0296F								<code>\downupharpoonsleftright</code>	downwards harpoon with barb left beside upwards harpoon with barb right
U+02970								<code>\rightimply</code>	right double arrow with rounded head
U+02971								<code>\equalrightarrow</code>	equals sign above rightwards arrow
U+02972								<code>\similarrightarrow</code>	tilde operator above rightwards arrow
U+02973								<code>\leftarrowsimilar</code>	leftwards arrow above tilde operator
U+02974								<code>\rightarrowsimilar</code>	rightwards arrow above tilde operator
U+02975								<code>\rightarrowapprox</code>	rightwards arrow above almost equal to
U+02976								<code>\ltlarr</code>	less-than above leftwards arrow
U+02977								<code>\leftarrowless</code>	leftwards arrow through less-than
U+02978								<code>\gtrarr</code>	greater-than above rightwards arrow
U+02979								<code>\subrarr</code>	subset above rightwards arrow
U+0297A								<code>\leftarrowsubset</code>	leftwards arrow through subset
U+0297B								<code>\suplarr</code>	superset above leftwards arrow
U+0297C								<code>\leftfishtail</code>	left fish tail
U+0297D								<code>\rightfishtail</code>	right fish tail
U+0297E								<code>\upfishtail</code>	up fish tail
U+0297F								<code>\downfishtail</code>	down fish tail
U+02982								<code>\typecolon</code>	z notation type colon
U+029CE								<code>\rtriltri</code>	right triangle above left triangle
U+029CF								<code>\ltrivb</code>	left triangle beside vertical bar
U+029D0								<code>\vbrtri</code>	vertical bar beside right triangle

USV	M	S	C	P	D	L	G	Macro	Description
U+029D1		⚡						<code>\lfbowtie</code>	left black bowtie
U+029D2		⚡						<code>\rfbowtie</code>	right black bowtie
U+029D3		⚡						<code>\fbowtie</code>	black bowtie
U+029D4		⚡						<code>\lftimes</code>	left black times
U+029D5		⚡						<code>\rftimes</code>	right black times
U+029DF		⌘						<code>\dualmap</code>	double-ended multimap
U+029E1		⚡						<code>\lrtriangleeq</code>	increases as
U+029E3		⚡						<code>\eparsl</code>	equals sign and slanted parallel
U+029E4		⚡						<code>\smeparsl</code>	equals sign and slanted parallel with tilde above
U+029E5		⚡						<code>\eqvparsl</code>	identical to and slanted parallel
U+029E6		⚡						<code>\gleichstark</code>	gleich stark
U+029F4		⚡						<code>\ruledelayed</code>	rule-delayed
U+02A59		⚡						<code>\veeonwedge</code>	logical or overlapping logical and
U+02A66		⚡						<code>\eqdot</code>	equals sign with dot below
U+02A67		⚡						<code>\dotequiv</code>	identical with dot above
U+02A68		⚡						<code>\equivVert</code>	triple horizontal bar with double vertical stroke
U+02A69		⚡						<code>\equivVvert</code>	triple horizontal bar with triple vertical stroke
U+02A6A		⚡					⚡	<code>\dotsim</code>	tilde operator with dot above
U+02A6B		⚡					⚡	<code>\simrdots</code>	tilde operator with rising dots
U+02A6C		⚡					⚡	<code>\simminusim</code>	similar minus similar
U+02A6D		⚡					⚡	<code>\congdot</code>	congruent with dot above
U+02A6E		⚡						<code>\asteq</code>	equals with asterisk
U+02A6F		⚡						<code>\hatapprox</code>	almost equal to with circumflex accent
U+02A70		⚡					⚡	<code>\approxqq</code>	approximately equal or equal to
U+02A73		⚡					⚡	<code>\eqqsim</code>	equals sign above tilde operator
U+02A74		⚡					⚡	<code>\Coloneq</code>	double colon equal
U+02A75		⚡					⚡	<code>\eqeq</code>	two consecutive equals signs
U+02A76		⚡					⚡	<code>\eqeqeq</code>	three consecutive equals signs
U+02A77		⚡						<code>\ddotseq</code>	equals sign with two dots above and two dots below
U+02A78		⚡						<code>\equivDD</code>	equivalent with four dots above
U+02A79		⚡					⚡	<code>\lrcir</code>	less-than with circle inside
U+02A7A		⚡					⚡	<code>\gtrcir</code>	greater-than with circle inside

USV	M	S	C	P	D	L	G	Macro	Description
U+02A7B								<code>\ltquest</code>	less-than with question mark above
U+02A7C								<code>\gtquest</code>	greater-than with question mark above
U+02A7D								<code>\leqslant<sup>(a)</sup></code>	less-than or slanted equal to
U+02A7E								<code>\geqslant<sup>(a)</sup></code>	greater-than or slanted equal to
U+02A7F								<code>\lesdot</code>	less-than or slanted equal to with dot inside
U+02A80								<code>\gesdot</code>	greater-than or slanted equal to with dot inside
U+02A81								<code>\lesdoto</code>	less-than or slanted equal to with dot above
U+02A82								<code>\gesdoto</code>	greater-than or slanted equal to with dot above
U+02A83								<code>\lesdotor</code>	less-than or slanted equal to with dot above right
U+02A84								<code>\gesdotoL</code>	greater-than or slanted equal to with dot above left
U+02A85								<code>\lessapprox<sup>(a)</sup></code>	less-than or approximate
U+02A86								<code>\gtrapprox<sup>(a)</sup></code>	greater-than or approximate
U+02A87								<code>\lneq<sup>(a)</sup></code>	less-than and single-line not equal to
U+02A88								<code>\gneq<sup>(a)</sup></code>	greater-than and single-line not equal to
U+02A89								<code>\lnapprox<sup>(a)</sup></code>	less-than and not approximate
U+02A8A								<code>\gnapprox<sup>(a)</sup></code>	greater-than and not approximate
U+02A8B								<code>\lesseqgtr<sup>(a)</sup></code>	less-than above double-line equal above greater-than
U+02A8C								<code>\gtreqless<sup>(a)</sup></code>	greater-than above double-line equal above less-than
U+02A8D								<code>\lsime</code>	less-than above similar or equal
U+02A8E								<code>\gsime</code>	greater-than above similar or equal
U+02A8F								<code>\lsimg</code>	less-than above similar above greater-than
U+02A90								<code>\gsiml</code>	greater-than above similar above less-than
U+02A91								<code>\lgE</code>	less-than above greater-than above double-line equal
U+02A92								<code>\glE</code>	greater-than above less-than above double-line equal
U+02A93								<code>\lesges</code>	less-than above slanted equal above greater-than above slanted equal

USV	M	S	C	P	D	L	G	Macro	Description
U+02A94								<code>\gesles</code>	greater-than above slanted equal above less-than above slanted equal
U+02A95								<code>\eqslantless<sup>(a)</sup></code>	slanted equal to or less-than
U+02A96								<code>\eqslantgtr<sup>(a)</sup></code>	slanted equal to or greater-than
U+02A97								<code>\elsdot</code>	slanted equal to or less-than with dot inside
U+02A98								<code>\egsdot</code>	slanted equal to or greater-than with dot inside
U+02A99								<code>\eqqless</code>	double-line equal to or less-than
U+02A9A								<code>\eqqgtr</code>	double-line equal to or greater-than
U+02A9B								<code>\eqqslantless</code>	double-line slanted equal to or less-than
U+02A9C								<code>\eqqslantgtr</code>	double-line slanted equal to or greater-than
U+02A9D								<code>\simless</code>	similar or less-than
U+02A9E								<code>\simgtr</code>	similar or greater-than
U+02A9F								<code>\simLE</code>	similar above less-than above equals sign
U+02AA0								<code>\simGE</code>	similar above greater-than above equals sign
U+02AA1								<code>\Lt</code>	double nested less-than
U+02AA2								<code>\Gt</code>	double nested greater-than
U+02AA3								<code>\partialmeetcontraction</code>	double less-than with underbar
U+02AA4								<code>\glj</code>	greater-than overlapping less-than
U+02AA5								<code>\gla</code>	greater-than beside less-than
U+02AA6								<code>\ltcc</code>	less-than closed by curve
U+02AA7								<code>\gtcc</code>	greater-than closed by curve
U+02AA8								<code>\lescc</code>	less-than closed by curve above slanted equal
U+02AA9								<code>\gescc</code>	greater-than closed by curve above slanted equal
U+02AAA								<code>\smt</code>	smaller than
U+02AAB								<code>\lat</code>	larger than
U+02AAC								<code>\snte</code>	smaller than or equal to
U+02AAD								<code>\late</code>	larger than or equal to
U+02AAE								<code>\bumpeq</code>	equals sign with bumpy above
U+02AAF								<code>\preceq<sup>(p)</sup></code>	precedes above single-line equals sign

USV	M	S	C	P	D	L	G	Macro	Description
U+02AB0	𐍂	𐍃	𐍄	𐍅	𐍆	𐍇	𐍈	<code>\succeq<sup>(p)</sup></code>	succeeds above single-line equals sign
U+02AB1		𐍉	𐍊			𐍋	𐍌	<code>\precneq</code>	precedes above single-line not equal to
U+02AB2		𐍍	𐍎			𐍏	𐍐	<code>\succeq</code>	succeeds above single-line not equal to
U+02AB3		𐍑	𐍒			𐍓	𐍔	<code>\preceqq</code>	precedes above equals sign
U+02AB4		𐍕	𐍖			𐍗	𐍘	<code>\succeqq</code>	succeeds above equals sign
U+02AB5		𐍙	𐍚			𐍛	𐍜	<code>\precneqq<sup>(a)</sup></code>	precedes above not equal to
U+02AB6		𐍟	𐍠			𐍡	𐍢	<code>\succeqq<sup>(a)</sup></code>	succeeds above not equal to
U+02AB7		𐍤	𐍥				𐍦	<code>\precapprox<sup>(a)</sup></code>	precedes above almost equal to
U+02AB8		𐍧	𐍨				𐍩	<code>\succapprox<sup>(a)</sup></code>	succeeds above almost equal to
U+02AB9		𐍫	𐍬				𐍭	<code>\precnapprox<sup>(a)</sup></code>	precedes above not almost equal to
U+02ABA		𐍯	𐍰				𐍱	<code>\succnapprox<sup>(a)</sup></code>	succeeds above not almost equal to
U+02ABB		𐍷					𐍸	<code>\Prec</code>	double precedes
U+02ABC		𐍹					𐍺	<code>\Succ</code>	double succeeds
U+02ABD		𐍽					𐍾	<code>\subsetdot</code>	subset with dot
U+02ABE		𐍿					𐎀	<code>\supsetdot</code>	superset with dot
U+02ABF		𐎁						<code>\subsetplus</code>	subset with plus sign below
U+02AC0		𐎂						<code>\supsetplus</code>	superset with plus sign below
U+02AC1		𐎃						<code>\submult</code>	subset with multiplication sign below
U+02AC2		𐎄						<code>\supmult</code>	superset with multiplication sign below
U+02AC3		𐎅						<code>\subedot</code>	subset of or equal to with dot above
U+02AC4		𐎆						<code>\supedot</code>	superset of or equal to with dot above
U+02AC5		𐎇	𐎈				𐎉	<code>\subseteqq<sup>(a)</sup></code>	subset of above equals sign
U+02AC6		𐎋	𐎌				𐎍	<code>\supseteqq<sup>(a)</sup></code>	superset of above equals sign
U+02AC7		𐎏					𐎐	<code>\subsim</code>	subset of above tilde operator
U+02AC8		𐎑					𐎒	<code>\supsim</code>	superset of above tilde operator
U+02AC9		𐎓					𐎔	<code>\subsetapprox</code>	subset of above almost equal to
U+02ACA		𐎕					𐎖	<code>\supsetapprox</code>	superset of above almost equal to
U+02ACB		𐎗	𐎘				𐎙	<code>\subsetneqq<sup>(a)</sup></code>	subset of above not equal to
U+02ACC		𐎛	𐎜				𐎝	<code>\supsetneqq<sup>(a)</sup></code>	superset of above not equal to
U+02ACD		𐎟						<code>\lsqhook</code>	square left open box operator

USV	M	S	C	P	D	L	G	Macro	Description
U+02ACE		☐						<code>\rsqhook</code>	square right open box operator
U+02ACF		⊂						<code>\csub</code>	closed subset
U+02AD0		⊃						<code>\csup</code>	closed superset
U+02AD1		⊆						<code>\csube</code>	closed subset or equal to
U+02AD2		⊇						<code>\csupe</code>	closed superset or equal to
U+02AD3		⊈						<code>\subsup</code>	subset above superset
U+02AD4		⊉						<code>\supsub</code>	superset above subset
U+02AD5		⊊						<code>\subsub</code>	subset above subset
U+02AD6		⊋						<code>\supsup</code>	superset above superset
U+02AD7		⊌						<code>\suphsub</code>	superset beside subset
U+02AD8		⊍						<code>\supdsub</code>	superset beside and joined by dash with subset
U+02AD9		⊎						<code>\forkv</code>	element of opening downwards
U+02ADA		⊏						<code>\topfork</code>	pitchfork with tee top
U+02ADB		⊐						<code>\mlcp</code>	transversal intersection
U+02ADC		⊑						<code>\forks</code>	forking
U+02ADD		⊒						<code>\forksnot</code>	nonforking
U+02ADE		⊓						<code>\shortlefttack</code>	short left tack
U+02ADF		⊔						<code>\shortdowntack</code>	short down tack
U+02AE0		⊕						<code>\shortuptack</code>	short up tack
U+02AE2		≡						<code>\vDdash</code>	vertical bar triple right turnstile
U+02AE3		⊎						<code>\dashV</code>	double vertical bar left turnstile
U+02AE4		≡						<code>\Dashv</code>	vertical bar double left turnstile
U+02AE5		≡						<code>\DashV</code>	double vertical bar double left turnstile
U+02AE6		⊎						<code>\varVdash</code>	long dash from left member of double vertical
U+02AE7		⊎						<code>\Barv</code>	short down tack with overbar
U+02AE8		⊎						<code>\vBar</code>	short up tack with underbar
U+02AE9		⊎						<code>\vBarv</code>	short up tack above short down tack
U+02AEA		⊎						<code>\barV</code>	double down tack
U+02AEB		⊎						<code>\Vbar</code>	double up tack
U+02AEC		≡						<code>\Not</code>	double stroke not sign
U+02AED		≡						<code>\bNot</code>	reversed double stroke not sign
U+02AEE		⊎						<code>\revnmid</code>	does not divide with reversed negation slash

USV	M	S	C	P	D	L	G	Macro	Description
U+02AEF		⋈						<code>\circamid</code>	vertical line with circle above
U+02AF0		⋇						<code>\midcir</code>	vertical line with circle below
U+02AF2		∥						<code>\nhpar</code>	parallel with horizontal stroke
U+02AF3		∦						<code>\parsim</code>	parallel with tilde operator
U+02AF7		≪						<code>\lllnest</code>	stacked very much less-than
U+02AF8		≫						<code>\gggnest</code>	stacked very much greater-than
U+02AF9		≲	≳					<code>\leqqslant</code>	double-line slanted less-than or equal to
U+02AFA		≳	≲					<code>\geqqslant</code>	double-line slanted greater-than or equal to
U+02B30		↵					↵	<code>\circleonleftarrow</code>	left arrow with small circle
U+02B31	↵↵↵	↵↵↵	↵↵↵	↵↵↵	↵↵↵	↵↵↵	↵↵↵	<code>\leftthreearrows</code>	three leftwards arrows
U+02B32		↵⊕						<code>\leftarrowonoplus</code>	left arrow with circled plus
U+02B33	↵	↵	↵	↵	↵	↵	↵	<code>\longleftsquigarrow</code>	long leftwards squiggle arrow
U+02B34		↵↵						<code>\nvtwoheadleftarrow</code>	leftwards two-headed arrow with vertical stroke
U+02B35		↵↵						<code>\nVtwoheadleftarrow</code>	leftwards two-headed arrow with double vertical stroke
U+02B36		↵⊥						<code>\twoheadmapsfrom</code>	leftwards two-headed arrow from bar
U+02B37		↵↵↵						<code>\twoheadleftdbkarrow</code>	leftwards two-headed triple-dash arrow
U+02B38		↵⋯						<code>\leftdotarrow</code>	leftwards arrow with dotted stem
U+02B39		↵↵						<code>\nvleftarrowtail</code>	leftwards arrow with tail with vertical stroke
U+02B3A		↵↵						<code>\nVleftarrowtail</code>	leftwards arrow with tail with double vertical stroke
U+02B3B		↵↵						<code>\twoheadleftarrowtail</code>	leftwards two-headed arrow with tail
U+02B3C		↵↵						<code>\nvtwoheadleftarrowtail</code>	leftwards two-headed arrow with tail with vertical stroke
U+02B3D		↵↵						<code>\nVtwoheadleftarrowtail</code>	leftwards two-headed arrow with tail with double vertical stroke
U+02B3E		↵×						<code>\leftarrowx</code>	leftwards arrow through x
U+02B3F		↵						<code>\leftcurvedarrow</code>	wave arrow pointing directly left
U+02B40		↵=						<code>\equalleftarrow</code>	equals sign above leftwards arrow
U+02B41		↵~						<code>\bsimilarleftarrow</code>	reverse tilde operator above leftwards arrow
U+02B42		↵≈						<code>\leftarrowbackapprox</code>	leftwards arrow above reverse almost equal to
U+02B43		↵➤						<code>\rightarrowgtr</code>	rightwards arrow through greater-than

usv	M	S	C	P	D	L	G	Macro	Description
U+02B44		⇒						<code>\rightarrowsupset</code>	rightwards arrow through subset
U+02B45		⇐					⇐	<code>\Lleftarrow</code>	leftwards quadruple arrow
U+02B46		⇒					⇒	<code>\Rrightarrow</code>	rightwards quadruple arrow
U+02B47		↠						<code>\bsimilarrrightarrow</code>	reverse tilde operator above rightwards arrow
U+02B48		⇨						<code>\rightarrowbackapprox</code>	rightwards arrow above reverse almost equal to
U+02B49		⇠						<code>\similarleftarrow</code>	tilde operator above leftwards arrow
U+02B4A		⇨						<code>\leftarrowapprox</code>	leftwards arrow above almost equal to
U+02B4B		⇠						<code>\leftarrowbsimilar</code>	leftwards arrow above reverse tilde operator
U+02B4C		⇨						<code>\rightarrowbsimilar</code>	rightwards arrow above reverse tilde operator

## 15 Alphabetical symbols, `\mathalpha`

### 15.1 Normal weight

#### 15.1.1 Upright Greek, uppercase

usv	M	S	C	P	D	L	G	Macro	Description
U+00391	Α	Α	Α	Α	Α	Α	Α	<code>\mupAlpha</code>	capital alpha, greek
U+00392	Β	Β	Β	Β	Β	Β	Β	<code>\mupBeta</code>	capital beta, greek
U+00393	Γ	Γ	Γ	Γ	Γ	Γ	Γ	<code>\mupGamma</code>	capital gamma, greek
U+00394	Δ	Δ	Δ	Δ	Δ	Δ	Δ	<code>\mupDelta</code>	capital delta, greek
U+00395	Ε	Ε	Ε	Ε	Ε	Ε	Ε	<code>\mupEpsilon</code>	capital epsilon, greek
U+00396	Ζ	Ζ	Ζ	Ζ	Ζ	Ζ	Ζ	<code>\mupZeta</code>	capital zeta, greek
U+00397	Η	Η	Η	Η	Η	Η	Η	<code>\mupEta</code>	capital eta, greek
U+00398	Θ	Θ	Θ	Θ	Θ	Θ	Θ	<code>\mupTheta</code>	capital theta, greek
U+00399	Ι	Ι	Ι	Ι	Ι	Ι	Ι	<code>\mupIota</code>	capital iota, greek
U+0039A	Κ	Κ	Κ	Κ	Κ	Κ	Κ	<code>\mupKappa</code>	capital kappa, greek
U+0039B	Λ	Λ	Λ	Λ	Λ	Λ	Λ	<code>\mupLambda</code>	capital lambda, greek
U+0039C	Μ	Μ	Μ	Μ	Μ	Μ	Μ	<code>\mupMu</code>	capital mu, greek
U+0039D	Ν	Ν	Ν	Ν	Ν	Ν	Ν	<code>\mupNu</code>	capital nu, greek
U+0039E	Ξ	Ξ	Ξ	Ξ	Ξ	Ξ	Ξ	<code>\mupXi</code>	capital xi, greek
U+0039F	Ο	Ο	Ο	Ο	Ο	Ο	Ο	<code>\mupOmicron</code>	capital omicron, greek

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

### 15.1.2 Upright Greek, lowercase

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

USV	M	S	C	P	D	L	G	Macro	Description
U+003C5	υ	ϐ	ϑ	ϒ	ϓ	ϔ	ϕ	<code>\mupupsilon</code>	small upsilon, greek
U+003C6	ϕ	ϗ	Ϙ	ϙ	Ϛ	ϛ	Ϝ	<code>\mupvarphi</code>	curly or open small phi, greek
U+003C7	χ	ϝ	Ϟ	ϟ	Ϡ	ϡ	Ϣ	<code>\mupchi</code>	small chi, greek
U+003C8	ψ	ϣ	Ϥ	ϥ	Ϧ	ϧ	Ϩ	<code>\muppsi</code>	small psi, greek
U+003C9	ω	ϩ	Ϫ	ϫ	Ϭ	ϭ	Ϯ	<code>\mupomega</code>	small omega, greek
U+003D1	ϴ	ϵ	϶	Ϸ	ϸ	Ϲ	Ϻ	<code>\mupvarthetaeta</code>	/varthetaeta - curly or open theta
U+003D5	ϕ	ϗ	Ϙ	ϙ	Ϛ	ϛ	Ϝ	<code>\mupphi</code>	/straightphi - small phi, greek
U+003D6	ϰ	ϱ	ϲ	ϳ	ϴ	ϵ	϶	<code>\mupvarpi</code>	rounded small pi (pomega), greek
U+003DC		Ϸ					ϸ	<code>\upDigamma</code>	capital digamma
U+003DD		Ϲ					Ϻ	<code>\updigamma</code>	old greek small letter digamma
U+003F0	ϰ	ϱ	ϲ	ϳ	ϴ	ϵ	϶	<code>\mupvarkappa</code>	rounded small kappa, greek
U+003F1	ϱ	ϲ	ϳ	ϴ	ϵ	϶	Ϸ	<code>\mupvarrho</code>	rounded small rho, greek
U+003F4	Θ	Ϻ	ϻ	ϼ	Ͻ	Ͼ	Ͽ	<code>\mupvarTheta</code>	greek capital theta symbol
U+003F5	ϵ	϶	Ϸ	ϸ	Ϲ	Ϻ	ϻ	<code>\mupepsilon</code>	greek lunate varepsilon symbol

### 15.1.3 Italic, Latin, uppercase

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

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

#### 15.1.4 Italic, Latin, lowercase

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

USV	M	S	C	P	D	L	G	Macro	Description
U+1D462	<i>u</i>	u	u	u	u	u	u	<code>\mitu</code>	mathematical italic small u
U+1D463	<i>v</i>	v	v	v	v	v	v	<code>\mitv</code>	mathematical italic small v
U+1D464	<i>w</i>	w	w	w	w	w	w	<code>\mitw</code>	mathematical italic small w
U+1D465	<i>x</i>	x	x	x	x	x	x	<code>\mitx</code>	mathematical italic small x
U+1D466	<i>y</i>	y	y	y	y	y	y	<code>\mity</code>	mathematical italic small y
U+1D467	<i>z</i>	z	z	z	z	z	z	<code>\mitz</code>	mathematical italic small z

### 15.1.5 Italic Greek, uppercase

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

USV	M	S	C	P	D	L	G	Macro	Description
U+1D6F6	$\Upsilon$	$\Upsilon$	$\Upsilon$	$\Upsilon$	$\Upsilon$	$\Upsilon$	$\Upsilon$	<code>\mitUpsilon</code>	mathematical italic capital upsilon
U+1D6F7	$\Phi$	$\Phi$	$\Phi$	$\Phi$	$\Phi$	$\Phi$	$\Phi$	<code>\mitPhi</code>	mathematical italic capital phi
U+1D6F8	$\Chi$	\Chi	\Chi	\Chi	\Chi	\Chi	\Chi	<code>\mitChi</code>	mathematical italic capital chi
U+1D6F9	$\Psi$	$\Psi$	$\Psi$	$\Psi$	$\Psi$	$\Psi$	$\Psi$	<code>\mitPsi</code>	mathematical italic capital psi
U+1D6FA	$\Omega$	$\Omega$	$\Omega$	$\Omega$	$\Omega$	$\Omega$	$\Omega$	<code>\mitOmega</code>	mathematical italic capital omega

### 15.1.6 Italic Greek, lowercase

USV	M	S	C	P	D	L	G	Macro	Description
U+1D6FC	$\alpha$	$\alpha$	$\alpha$	$\alpha$	$\alpha$	$\alpha$	$\alpha$	<code>\mitalpha</code>	mathematical italic small alpha
U+1D6FD	$\beta$	$\beta$	$\beta$	$\beta$	$\beta$	$\beta$	$\beta$	<code>\mitbeta</code>	mathematical italic small beta
U+1D6FE	$\gamma$	$\gamma$	$\gamma$	$\gamma$	$\gamma$	$\gamma$	$\gamma$	<code>\mitgamma</code>	mathematical italic small gamma
U+1D6FF	$\delta$	$\delta$	$\delta$	$\delta$	$\delta$	$\delta$	$\delta$	<code>\mitdelta</code>	mathematical italic small delta
U+1D700	$\epsilon$	$\epsilon$	$\epsilon$	$\epsilon$	$\epsilon$	$\epsilon$	$\epsilon$	<code>\mitvarepsilon</code>	mathematical italic small varepsilon
U+1D701	$\zeta$	$\zeta$	$\zeta$	$\zeta$	$\zeta$	$\zeta$	$\zeta$	<code>\mitzeta</code>	mathematical italic small zeta
U+1D702	$\eta$	$\eta$	$\eta$	$\eta$	$\eta$	$\eta$	$\eta$	<code>\miteta</code>	mathematical italic small eta
U+1D703	$\theta$	$\theta$	$\theta$	$\theta$	$\theta$	$\theta$	$\theta$	<code>\mittheta</code>	mathematical italic small theta
U+1D704	$\iota$	$\iota$	$\iota$	$\iota$	$\iota$	$\iota$	$\iota$	<code>\mitiota</code>	mathematical italic small iota
U+1D705	$\kappa$	$\kappa$	$\kappa$	$\kappa$	$\kappa$	$\kappa$	$\kappa$	<code>\mitkappa</code>	mathematical italic small kappa
U+1D706	$\lambda$	$\lambda$	$\lambda$	$\lambda$	$\lambda$	$\lambda$	$\lambda$	<code>\mitlambda</code>	mathematical italic small lambda
U+1D707	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	<code>\mitmu</code>	mathematical italic small mu
U+1D708	$\nu$	$\nu$	$\nu$	$\nu$	$\nu$	$\nu$	$\nu$	<code>\mitnu</code>	mathematical italic small nu
U+1D709	$\xi$	$\xi$	$\xi$	$\xi$	$\xi$	$\xi$	$\xi$	<code>\mitxi</code>	mathematical italic small xi
U+1D70A	$\omicron$	\omicron	\omicron	\omicron	\omicron	\omicron	\omicron	<code>\mitomicron</code>	mathematical italic small omicron
U+1D70B	$\pi$	$\pi$	$\pi$	$\pi$	$\pi$	$\pi$	$\pi$	<code>\mitpi</code>	mathematical italic small pi
U+1D70C	$\rho$	$\rho$	$\rho$	$\rho$	$\rho$	$\rho$	$\rho$	<code>\mitrho</code>	mathematical italic small rho
U+1D70D	$\varsigma$	$\varsigma$	$\varsigma$	$\varsigma$	$\varsigma$	$\varsigma$	$\varsigma$	<code>\mitvarsigma</code>	mathematical italic small final sigma
U+1D70E	$\sigma$	$\sigma$	$\sigma$	$\sigma$	$\sigma$	$\sigma$	$\sigma$	<code>\mitsigma</code>	mathematical italic small sigma
U+1D70F	$\tau$	$\tau$	$\tau$	$\tau$	$\tau$	$\tau$	$\tau$	<code>\mittau</code>	mathematical italic small tau
U+1D710	$\upsilon$	$\upsilon$	$\upsilon$	$\upsilon$	$\upsilon$	$\upsilon$	$\upsilon$	<code>\mitupsilon</code>	mathematical italic small upsilon
U+1D711	$\varphi$	$\varphi$	$\varphi$	$\varphi$	$\varphi$	$\varphi$	$\varphi$	<code>\mitvarphi</code>	mathematical italic small phi

USV	M	S	C	P	D	L	G	Macro	Description
U+1D712	$\chi$	$\chi$	$\chi$	$\chi$	$\chi$	$\chi$	$\chi$	<code>\mitchi</code>	mathematical italic small chi
U+1D713	$\psi$	$\psi$	$\psi$	$\psi$	$\psi$	$\psi$	$\psi$	<code>\mitpsi</code>	mathematical italic small psi
U+1D714	$\omega$	$\omega$	$\omega$	$\omega$	$\omega$	$\omega$	$\omega$	<code>\mitomega</code>	mathematical italic small omega
U+1D715	$\partial$	\partial	\partial	\partial	\partial	\partial	\partial	<code>\mitpartial</code>	mathematical italic partial differential
U+1D716	$\epsilon$	$\epsilon$	$\epsilon$	$\epsilon$	$\epsilon$	$\epsilon$	$\epsilon$	<code>\mitepsilon</code>	mathematical italic varepsilon symbol
U+1D717	$\vartheta$	$\vartheta$	$\vartheta$	$\vartheta$	$\vartheta$	$\vartheta$	$\vartheta$	<code>\mitvartheta</code>	mathematical italic theta symbol
U+1D718	$\varkappa$	\varkappa	\varkappa	\varkappa	\varkappa	\varkappa	\varkappa	<code>\mitvarkappa</code>	mathematical italic kappa symbol
U+1D719	$\phi$	$\phi$	$\phi$	$\phi$	$\phi$	$\phi$	$\phi$	<code>\mitphi</code>	mathematical italic phi symbol
U+1D71A	$\varrho$	$\varrho$	$\varrho$	$\varrho$	$\varrho$	$\varrho$	$\varrho$	<code>\mitvarrho</code>	mathematical italic rho symbol
U+1D71B	$\varpi$	$\varpi$	$\varpi$	$\varpi$	$\varpi$	$\varpi$	$\varpi$	<code>\mitvarpi</code>	mathematical italic pi symbol

### 15.1.7 Script, Latin, uppercase

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

USV	M	S	C	P	D	L	G	Macro	Description
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### 15.1.8 Script, Latin, lowercase

USV	M	S	C	P	D	L	G	Macro	Description
U+1D4B6		<i>a</i>		<i>a</i>	<i>ā</i>	<i>ǎ</i>	<i>ȁ</i>	<code>\mscra</code>	mathematical script small a
U+1D4B7		<i>b</i>		<i>b</i>	<i>ḃ</i>	<i>Ḅ</i>	<i>ḅ</i>	<code>\mscrb</code>	mathematical script small b
U+1D4B8		<i>c</i>		<i>c</i>	<i>ċ</i>	<i>Ċ</i>	<i>ċ</i>	<code>\mscrc</code>	mathematical script small c
U+1D4B9		<i>d</i>		<i>d</i>	<i>ḏ</i>	<i>Ḑ</i>	<i>ḑ</i>	<code>\mscrd</code>	mathematical script small d
U+1D4BB		<i>f</i>		<i>f</i>	<i>ḟ</i>	<i>Ḟ</i>	<i>ḟ</i>	<code>\mscrf</code>	mathematical script small f
U+1D4BD		<i>h</i>		<i>h</i>	<i>ḣ</i>	<i>Ḥ</i>	<i>ḥ</i>	<code>\mscrh</code>	mathematical script small h
U+1D4BE		<i>i</i>		<i>i</i>	<i>ī</i>	<i>Ĭ</i>	<i>ī</i>	<code>\mscri</code>	mathematical script small i
U+1D4BF		<i>j</i>		<i>j</i>	<i>ĵ</i>	<i>Ĵ</i>	<i>ĵ</i>	<code>\mscrj</code>	mathematical script small j
U+1D4C0		<i>k</i>		<i>k</i>	<i>ḱ</i>	<i>Ḳ</i>	<i>ḳ</i>	<code>\mscrk</code>	mathematical script small k
U+1D4C1		<i>l</i>		<i>l</i>	<i>ḽ</i>	<i>Ḽ</i>	<i>ḽ</i>	<code>\mscr1</code>	mathematical script small l
U+1D4C2		<i>m</i>		<i>m</i>	<i>ḿ</i>	<i>Ḿ</i>	<i>ḿ</i>	<code>\mscrm</code>	mathematical script small m
U+1D4C3		<i>n</i>		<i>n</i>	<i>ṅ</i>	<i>Ṅ</i>	<i>ṅ</i>	<code>\mscrn</code>	mathematical script small n
U+1D4C5		<i>p</i>		<i>p</i>	<i>ṕ</i>	<i>Ṗ</i>	<i>ṑ</i>	<code>\mscrp</code>	mathematical script small p
U+1D4C6		<i>q</i>		<i>q</i>	<i>ṙ</i>	<i>Ṛ</i>	<i>ṙ</i>	<code>\mscrq</code>	mathematical script small q
U+1D4C7		<i>r</i>		<i>r</i>	<i>ṛ</i>	<i>Ṛ</i>	<i>ṛ</i>	<code>\mscrr</code>	mathematical script small r
U+1D4C8		<i>s</i>		<i>s</i>	<i>ṣ</i>	<i>Ṣ</i>	<i>ṣ</i>	<code>\mscrs</code>	mathematical script small s
U+1D4C9		<i>t</i>		<i>t</i>	<i>ṭ</i>	<i>Ṭ</i>	<i>ṭ</i>	<code>\mscrt</code>	mathematical script small t
U+1D4CA		<i>u</i>		<i>u</i>	<i>ū</i>	<i>Ū</i>	<i>ū</i>	<code>\mscru</code>	mathematical script small u
U+1D4CB		<i>v</i>		<i>v</i>	<i>ṽ</i>	<i>Ṫ</i>	<i>ṽ</i>	<code>\mscrv</code>	mathematical script small v
U+1D4CC		<i>w</i>		<i>w</i>	<i>Ẁ</i>	<i>Ẃ</i>	<i>ẁ</i>	<code>\mscrw</code>	mathematical script small w
U+1D4CD		<i>x</i>		<i>x</i>	<i>ẃ</i>	<i>Ẅ</i>	<i>ẃ</i>	<code>\mscrx</code>	mathematical script small x
U+1D4CE		<i>y</i>		<i>y</i>	<i>ẅ</i>	<i>Ẇ</i>	<i>ẅ</i>	<code>\mscry</code>	mathematical script small y
U+1D4CF		<i>z</i>		<i>z</i>	<i>ẇ</i>	<i>Ẉ</i>	<i>ẇ</i>	<code>\mscrz</code>	mathematical script small z

### 15.1.9 Fraktur, Latin, uppercase

USV	M	S	C	P	D	L	G	Macro	Description
U+1D504	<b>A</b>	A	A	A	A	A	A	<code>\mfrakA</code>	mathematical fraktur capital a
U+1D505	<b>B</b>	B	B	B	B	B	B	<code>\mfrakB</code>	mathematical fraktur capital b

USV	M	S	C	P	D	L	G	Macro	Description
U+1D507	𝔻	𝔸	𝔸	𝔸	𝔸	𝔸	𝔸	\mfracD	mathematical fraktur capital d
U+1D508	𝔼	𝔸	𝔸	𝔸	𝔸	𝔸	𝔸	\mfracE	mathematical fraktur capital e
U+1D509	𝔽	𝔸	𝔸	𝔸	𝔸	𝔸	𝔸	\mfracF	mathematical fraktur capital f
U+1D50A	𝔾	𝔸	𝔸	𝔸	𝔸	𝔸	𝔸	\mfracG	mathematical fraktur capital g
U+1D50D	𝔷	𝔸	𝔸	𝔸	𝔸	𝔸	𝔸	\mfracJ	mathematical fraktur capital j
U+1D50E	𝔸	𝔸	𝔸	𝔸	𝔸	𝔸	𝔸	\mfracK	mathematical fraktur capital k
U+1D50F	𝔹	𝔸	𝔸	𝔸	𝔸	𝔸	𝔸	\mfracL	mathematical fraktur capital l
U+1D510	𝔻	𝔸	𝔸	𝔸	𝔸	𝔸	𝔸	\mfracM	mathematical fraktur capital m
U+1D511	𝔸	𝔸	𝔸	𝔸	𝔸	𝔸	𝔸	\mfracN	mathematical fraktur capital n
U+1D512	𝔸	𝔸	𝔸	𝔸	𝔸	𝔸	𝔸	\mfracO	mathematical fraktur capital o
U+1D513	𝔸	𝔸	𝔸	𝔸	𝔸	𝔸	𝔸	\mfracP	mathematical fraktur capital p
U+1D514	𝔸	𝔸	𝔸	𝔸	𝔸	𝔸	𝔸	\mfracQ	mathematical fraktur capital q
U+1D516	𝔸	𝔸	𝔸	𝔸	𝔸	𝔸	𝔸	\mfracS	mathematical fraktur capital s
U+1D517	𝔸	𝔸	𝔸	𝔸	𝔸	𝔸	𝔸	\mfracT	mathematical fraktur capital t
U+1D518	𝔸	𝔸	𝔸	𝔸	𝔸	𝔸	𝔸	\mfracU	mathematical fraktur capital u
U+1D519	𝔸	𝔸	𝔸	𝔸	𝔸	𝔸	𝔸	\mfracV	mathematical fraktur capital v
U+1D51A	𝔸	𝔸	𝔸	𝔸	𝔸	𝔸	𝔸	\mfracW	mathematical fraktur capital w
U+1D51B	𝔸	𝔸	𝔸	𝔸	𝔸	𝔸	𝔸	\mfracX	mathematical fraktur capital x
U+1D51C	𝔸	𝔸	𝔸	𝔸	𝔸	𝔸	𝔸	\mfracY	mathematical fraktur capital y

### 15.1.10 Fraktur, Latin, lowercase

USV	M	S	C	P	D	L	G	Macro	Description
U+1D51E	𝔞	𝔞	𝔞	𝔞	𝔞	𝔞	𝔞	\mfraka	mathematical fraktur small a
U+1D51F	𝔞	𝔞	𝔞	𝔞	𝔞	𝔞	𝔞	\mfrakb	mathematical fraktur small b
U+1D520	𝔞	𝔞	𝔞	𝔞	𝔞	𝔞	𝔞	\mfracc	mathematical fraktur small c
U+1D521	𝔞	𝔞	𝔞	𝔞	𝔞	𝔞	𝔞	\mfracd	mathematical fraktur small d
U+1D522	𝔞	𝔞	𝔞	𝔞	𝔞	𝔞	𝔞	\mfrace	mathematical fraktur small e
U+1D523	𝔞	𝔞	𝔞	𝔞	𝔞	𝔞	𝔞	\mfracf	mathematical fraktur small f
U+1D524	𝔞	𝔞	𝔞	𝔞	𝔞	𝔞	𝔞	\mfracg	mathematical fraktur small g
U+1D525	𝔞	𝔞	𝔞	𝔞	𝔞	𝔞	𝔞	\mfrach	mathematical fraktur small h
U+1D526	𝔞	𝔞	𝔞	𝔞	𝔞	𝔞	𝔞	\mfraci	mathematical fraktur small i
U+1D527	𝔞	𝔞	𝔞	𝔞	𝔞	𝔞	𝔞	\mfracj	mathematical fraktur small j
U+1D528	𝔞	𝔞	𝔞	𝔞	𝔞	𝔞	𝔞	\mfrack	mathematical fraktur small k

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

### 15.1.11 Blackboard, Latin, uppercase

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

USV	M	S	C	P	D	L	G	Macro	Description
U+1D546	⓪	ⓐ	ⓒ	ⓓ	ⓔ	ⓕ	ⓖ	\BbbO	mathematical double-struck capital o
U+1D54A	Ⓢ	Ⓣ	Ⓤ	Ⓥ	Ⓦ	Ⓧ	Ⓨ	\BbbS	mathematical double-struck capital s
U+1D54B	Ⓣ	Ⓤ	Ⓥ	Ⓦ	Ⓧ	Ⓨ	Ⓩ	\BbbT	mathematical double-struck capital t
U+1D54C	Ⓤ	Ⓥ	Ⓦ	Ⓧ	Ⓨ	Ⓩ	ⓐ	\BbbU	mathematical double-struck capital u
U+1D54D	Ⓨ	Ⓩ	ⓐ	ⓑ	ⓒ	ⓓ	ⓔ	\BbbV	mathematical double-struck capital v
U+1D54E	Ⓦ	Ⓧ	Ⓨ	Ⓩ	ⓐ	ⓑ	ⓒ	\BbbW	mathematical double-struck capital w
U+1D54F	Ⓧ	Ⓨ	Ⓩ	ⓐ	ⓑ	ⓒ	ⓓ	\BbbX	mathematical double-struck capital x
U+1D550	Ⓨ	Ⓩ	ⓐ	ⓑ	ⓒ	ⓓ	ⓔ	\BbbY	mathematical double-struck capital y

### 15.1.12 Blackboard, Latin, lowercase

USV	M	S	C	P	D	L	G	Macro	Description
U+1D552	ⓐ	ⓑ	ⓒ	ⓓ	ⓔ	ⓕ	ⓖ	\Bbba	mathematical double-struck small a
U+1D553	ⓑ	ⓒ	ⓓ	ⓔ	ⓕ	ⓖ	ⓗ	\Bbbb	mathematical double-struck small b
U+1D554	ⓒ	ⓓ	ⓔ	ⓕ	ⓖ	ⓗ	ⓘ	\Bbbc	mathematical double-struck small c
U+1D555	ⓓ	ⓔ	ⓕ	ⓖ	ⓗ	ⓘ	ⓙ	\Bbdd	mathematical double-struck small d
U+1D556	ⓔ	ⓕ	ⓖ	ⓗ	ⓘ	ⓙ	ⓚ	\Bbbe	mathematical double-struck small e
U+1D557	ⓕ	ⓖ	ⓗ	ⓘ	ⓙ	ⓚ	ⓛ	\Bbbf	mathematical double-struck small f
U+1D558	ⓖ	ⓗ	ⓘ	ⓙ	ⓚ	ⓛ	ⓜ	\Bbbg	mathematical double-struck small g
U+1D559	ⓗ	ⓘ	ⓙ	ⓚ	ⓛ	ⓜ	ⓝ	\Bbbh	mathematical double-struck small h
U+1D55A	ⓘ	ⓙ	ⓚ	ⓛ	ⓜ	ⓝ	ⓞ	\Bbbi	mathematical double-struck small i
U+1D55B	ⓙ	ⓚ	ⓛ	ⓜ	ⓝ	ⓞ	ⓟ	\Bbbj	mathematical double-struck small j
U+1D55C	ⓚ	ⓛ	ⓜ	ⓝ	ⓞ	ⓟ	ⓠ	\Bbbk <sup>(a)</sup>	mathematical double-struck small k
U+1D55D	ⓛ	ⓜ	ⓝ	ⓞ	ⓟ	ⓠ	ⓡ	\Bbb1	mathematical double-struck small l
U+1D55E	ⓜ	ⓝ	ⓞ	ⓟ	ⓠ	ⓡ	ⓢ	\Bbbm	mathematical double-struck small m
U+1D55F	ⓝ	ⓞ	ⓟ	ⓠ	ⓡ	ⓢ	ⓣ	\Bbbn	mathematical double-struck small n

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

### 15.1.13 Sans serif, Latin, uppercase

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

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

### 15.1.14 Sans serif, Latin, lowercase

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

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

### 15.1.15 Italic sans serif, Latin, uppercase

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

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

### 15.1.16 Italic sans serif, Latin, lowercase

USV	M	S	C	P	D	L	G	Macro	Description
U+1D622	<i>a</i>	a	a	a	a	a	a	<code>\mitsansa</code>	mathematical sans-serif italic small a
U+1D623	<i>b</i>	b	b	b	b	b	b	<code>\mitsansb</code>	mathematical sans-serif italic small b
U+1D624	<i>c</i>	c	c	c	c	c	c	<code>\mitsansc</code>	mathematical sans-serif italic small c
U+1D625	<i>d</i>	d	d	d	d	d	d	<code>\mitsansd</code>	mathematical sans-serif italic small d
U+1D626	<i>e</i>	e	e	e	e	e	e	<code>\mitsanse</code>	mathematical sans-serif italic small e
U+1D627	<i>f</i>	f	f	f	f	f	f	<code>\mitsansf</code>	mathematical sans-serif italic small f

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

### 15.1.17 Typewriter, Latin, uppercase

USV	M	S	C	P	D	L	G	Macro	Description
U+1D670	<b>A</b>	A	A	A	A	A	A	<code>\mttA</code>	mathematical monospace capital a
U+1D671	<b>B</b>	B	B	B	B	B	B	<code>\mttB</code>	mathematical monospace capital b

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

USV	M	S	C	P	D	L	G	Macro	Description
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### 15.1.18 Typewriter, Latin, lowercase

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

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

## 15.2 Bold

### 15.2.1 Bold, Latin, uppercase

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

USV	M	S	C	P	D	L	G	Macro	Description
U+1D417	<b>X</b>	X	X	X	X	X	X	<code>\mbfX</code>	mathematical bold capital x
U+1D418	<b>Y</b>	Y	Y	Y	Y	Y	Y	<code>\mbfY</code>	mathematical bold capital y
U+1D419	<b>Z</b>	Z	Z	Z	Z	Z	Z	<code>\mbfZ</code>	mathematical bold capital z

### 15.2.2 Bold, Latin, lowercase

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

### 15.2.3 Bold Greek, uppercase

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

### 15.2.4 Bold Greek, lowercase

USV	M	S	C	P	D	L	G	Macro	Description
U+1D6C2	$\alpha$	$\alpha$	$\alpha$	$\alpha$	$\alpha$	$\alpha$	$\alpha$	<code>\mbfalpha</code>	mathematical bold small alpha
U+1D6C3	$\beta$	$\beta$	$\beta$	$\beta$	$\beta$	$\beta$	$\beta$	<code>\mbfbeta</code>	mathematical bold small beta
U+1D6C4	$\gamma$	$\gamma$	$\gamma$	$\gamma$	$\gamma$	$\gamma$	$\gamma$	<code>\mbfgamma</code>	mathematical bold small gamma
U+1D6C5	$\delta$	$\delta$	$\delta$	$\delta$	$\delta$	$\delta$	$\delta$	<code>\mbfdelta</code>	mathematical bold small delta
U+1D6C6	$\varepsilon$	$\varepsilon$	$\varepsilon$	$\varepsilon$	$\varepsilon$	$\varepsilon$	$\varepsilon$	<code>\mbfvarepsilon</code>	mathematical bold small varepsilon
U+1D6C7	$\zeta$	$\zeta$	$\zeta$	$\zeta$	$\zeta$	$\zeta$	$\zeta$	<code>\mbfzeta</code>	mathematical bold small zeta
U+1D6C8	$\eta$	$\eta$	$\eta$	$\eta$	$\eta$	$\eta$	$\eta$	<code>\mbfeta</code>	mathematical bold small eta
U+1D6C9	$\theta$	$\theta$	$\theta$	$\theta$	$\theta$	$\theta$	$\theta$	<code>\mbftheta</code>	mathematical bold small theta
U+1D6CA	$\iota$	$\iota$	$\iota$	$\iota$	$\iota$	$\iota$	$\iota$	<code>\mbfiota</code>	mathematical bold small iota
U+1D6CB	$\kappa$	$\kappa$	$\kappa$	$\kappa$	$\kappa$	$\kappa$	$\kappa$	<code>\mbfkappa</code>	mathematical bold small kappa
U+1D6CC	$\lambda$	$\lambda$	$\lambda$	$\lambda$	$\lambda$	$\lambda$	$\lambda$	<code>\mbflambda</code>	mathematical bold small lambda
U+1D6CD	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	$\mu$	<code>\mbfmu</code>	mathematical bold small mu
U+1D6CE	$\nu$	$\nu$	$\nu$	$\nu$	$\nu$	$\nu$	$\nu$	<code>\mbfnu</code>	mathematical bold small nu
U+1D6CF	$\xi$	$\xi$	$\xi$	$\xi$	$\xi$	$\xi$	$\xi$	<code>\mbfxi</code>	mathematical bold small xi
U+1D6D0	$\omicron$	\omicron	\omicron	\omicron	\omicron	\omicron	\omicron	<code>\mbfomicron</code>	mathematical bold small omicron
U+1D6D1	$\pi$	$\pi$	$\pi$	$\pi$	$\pi$	$\pi$	$\pi$	<code>\mbfpi</code>	mathematical bold small pi
U+1D6D2	$\rho$	$\rho$	$\rho$	$\rho$	$\rho$	$\rho$	$\rho$	<code>\mbfrho</code>	mathematical bold small rho
U+1D6D3	$\varsigma$	$\varsigma$	$\varsigma$	$\varsigma$	$\varsigma$	$\varsigma$	$\varsigma$	<code>\mbfvarsigma</code>	mathematical bold small final sigma
U+1D6D4	$\sigma$	$\sigma$	$\sigma$	$\sigma$	$\sigma$	$\sigma$	$\sigma$	<code>\mbfsigma</code>	mathematical bold small sigma
U+1D6D5	$\tau$	$\tau$	$\tau$	$\tau$	$\tau$	$\tau$	$\tau$	<code>\mbftau</code>	mathematical bold small tau
U+1D6D6	$\upsilon$	$\upsilon$	$\upsilon$	$\upsilon$	$\upsilon$	$\upsilon$	$\upsilon$	<code>\mbfupsilon</code>	mathematical bold small up-silon
U+1D6D7	$\varphi$	$\varphi$	$\varphi$	$\varphi$	$\varphi$	$\varphi$	$\varphi$	<code>\mbfvarphi</code>	mathematical bold small phi
U+1D6D8	$\chi$	$\chi$	$\chi$	$\chi$	$\chi$	$\chi$	$\chi$	<code>\mbfchi</code>	mathematical bold small chi
U+1D6D9	$\psi$	$\psi$	$\psi$	$\psi$	$\psi$	$\psi$	$\psi$	<code>\mbfpsi</code>	mathematical bold small psi
U+1D6DA	$\omega$	$\omega$	$\omega$	$\omega$	$\omega$	$\omega$	$\omega$	<code>\mbfomega</code>	mathematical bold small omega
U+1D6DB	$\partial$	\partial	\partial	\partial	\partial	\partial	\partial	<code>\mbfpartial</code>	mathematical bold partial differential
U+1D6DC	$\epsilon$	$\epsilon$	$\epsilon$	$\epsilon$	$\epsilon$	$\epsilon$	$\epsilon$	<code>\mbfepsilon</code>	mathematical bold varepsilon symbol
U+1D6DD	$\vartheta$	$\vartheta$	$\vartheta$	$\vartheta$	$\vartheta$	$\vartheta$	$\vartheta$	<code>\mbfvartheta</code>	mathematical bold theta symbol
U+1D6DE	$\varkappa$	\varkappa	\varkappa	\varkappa	\varkappa	\varkappa	\varkappa	<code>\mbfvarkappa</code>	mathematical bold kappa symbol
U+1D6DF	$\phi$	$\phi$	$\phi$	$\phi$	$\phi$	$\phi$	$\phi$	<code>\mbfphi</code>	mathematical bold phi symbol
U+1D6E0	$\varrho$	$\varrho$	$\varrho$	$\varrho$	$\varrho$	$\varrho$	$\varrho$	<code>\mbfvarrho</code>	mathematical bold rho symbol

USV	M	S	C	P	D	L	G	Macro	Description
U+1D6E1	<b>ϰ</b>	<b>ϱ</b>	<b>ϲ</b>	<b>ϳ</b>	<b>ϴ</b>	<b>ϵ</b>	<b>϶</b>	<code>\mbfvarpi</code>	mathematical bold pi symbol

### 15.2.5 Bold italic, Latin, uppercase

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

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

### 15.2.6 Bold italic, Latin, lowercase

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

USV	M	S	C	P	D	L	G	Macro	Description
U+1D499	<i><b>x</b></i>	x	x	x	x	x	x	<code>\mbfitx</code>	mathematical bold italic small x
U+1D49A	<i><b>y</b></i>	y	y	y	y	y	y	<code>\mbfity</code>	mathematical bold italic small y
U+1D49B	<i><b>z</b></i>	z	z	z	z	z	z	<code>\mbfitz</code>	mathematical bold italic small z

### 15.2.7 Bold italic Greek, uppercase

USV	M	S	C	P	D	L	G	Macro	Description
U+1D71C	<i><b>Α</b></i>	Α	Α	Α	Α	Α	Α	<code>\mbfitAlpha</code>	mathematical bold italic capital alpha
U+1D71D	<i><b>Β</b></i>	Β	Β	Β	Β	Β	Β	<code>\mbfitBeta</code>	mathematical bold italic capital beta
U+1D71E	<i><b>Γ</b></i>	Γ	Γ	Γ	Γ	Γ	Γ	<code>\mbfitGamma</code>	mathematical bold italic capital gamma
U+1D71F	<i><b>Δ</b></i>	Δ	Δ	Δ	Δ	Δ	Δ	<code>\mbfitDelta</code>	mathematical bold italic capital delta
U+1D720	<i><b>Ε</b></i>	Ε	Ε	Ε	Ε	Ε	Ε	<code>\mbfitEpsilon</code>	mathematical bold italic capital epsilon
U+1D721	<i><b>Ζ</b></i>	Ζ	Ζ	Ζ	Ζ	Ζ	Ζ	<code>\mbfitZeta</code>	mathematical bold italic capital zeta
U+1D722	<i><b>Η</b></i>	Η	Η	Η	Η	Η	Η	<code>\mbfitEta</code>	mathematical bold italic capital eta
U+1D723	<i><b>Θ</b></i>	Θ	Θ	Θ	Θ	Θ	Θ	<code>\mbfitTheta</code>	mathematical bold italic capital theta
U+1D724	<i><b>Ι</b></i>	Ι	Ι	Ι	Ι	Ι	Ι	<code>\mbfitIota</code>	mathematical bold italic capital iota
U+1D725	<i><b>Κ</b></i>	Κ	Κ	Κ	Κ	Κ	Κ	<code>\mbfitKappa</code>	mathematical bold italic capital kappa
U+1D726	<i><b>Λ</b></i>	Λ	Λ	Λ	Λ	Λ	Λ	<code>\mbfitLambda</code>	mathematical bold italic capital lambda
U+1D727	<i><b>Μ</b></i>	Μ	Μ	Μ	Μ	Μ	Μ	<code>\mbfitMu</code>	mathematical bold italic capital mu
U+1D728	<i><b>Ν</b></i>	Ν	Ν	Ν	Ν	Ν	Ν	<code>\mbfitNu</code>	mathematical bold italic capital nu
U+1D729	<i><b>Ξ</b></i>	Ξ	Ξ	Ξ	Ξ	Ξ	Ξ	<code>\mbfitXi</code>	mathematical bold italic capital xi
U+1D72A	<i><b>Ο</b></i>	Ο	Ο	Ο	Ο	Ο	Ο	<code>\mbfitOmicron</code>	mathematical bold italic capital omicron
U+1D72B	<i><b>Π</b></i>	Π	Π	Π	Π	Π	Π	<code>\mbfitPi</code>	mathematical bold italic capital pi
U+1D72C	<i><b>Ρ</b></i>	Ρ	Ρ	Ρ	Ρ	Ρ	Ρ	<code>\mbfitRho</code>	mathematical bold italic capital rho
U+1D72D	<i><b>ϑ</b></i>	ϑ	ϑ	ϑ	ϑ	ϑ	ϑ	<code>\mbfitvarTheta</code>	mathematical bold italic capital theta symbol
U+1D72E	<i><b>Σ</b></i>	Σ	Σ	Σ	Σ	Σ	Σ	<code>\mbfitSigma</code>	mathematical bold italic capital sigma

USV	M	S	C	P	D	L	G	Macro	Description
U+1D72F	<b><i>Τ</i></b>	Τ	Τ	Τ	Τ	Τ	Τ	<code>\mbfitTau</code>	mathematical bold italic capital tau
U+1D730	<b><i>Υ</i></b>	Υ	Υ	Υ	Υ	Υ	Υ	<code>\mbfitUpsilon</code>	mathematical bold italic capital upsilon
U+1D731	<b><i>Φ</i></b>	Φ	Φ	Φ	Φ	Φ	Φ	<code>\mbfitPhi</code>	mathematical bold italic capital phi
U+1D732	<b><i>Χ</i></b>	Χ	Χ	Χ	Χ	Χ	Χ	<code>\mbfitChi</code>	mathematical bold italic capital chi
U+1D733	<b><i>Ψ</i></b>	Ψ	Ψ	Ψ	Ψ	Ψ	Ψ	<code>\mbfitPsi</code>	mathematical bold italic capital psi
U+1D734	<b><i>Ω</i></b>	Ω	Ω	Ω	Ω	Ω	Ω	<code>\mbfitOmega</code>	mathematical bold italic capital omega

### 15.2.8 Bold italic Greek, lowercase

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

USV	M	S	C	P	D	L	G	Macro	Description
U+1D746	$\rho$	$\rho$	$\rho$	$\rho$	$\rho$	$\rho$	$\rho$	<code>\mbfitrho</code>	mathematical bold italic small rho
U+1D747	$\varsigma$	$\varsigma$	$\varsigma$	$\varsigma$	$\varsigma$	$\varsigma$	$\varsigma$	<code>\mbfitvarsigma</code>	mathematical bold italic small final sigma
U+1D748	$\sigma$	$\sigma$	$\sigma$	$\sigma$	$\sigma$	$\sigma$	$\sigma$	<code>\mbfitsigma</code>	mathematical bold italic small sigma
U+1D749	$\tau$	$\tau$	$\tau$	$\tau$	$\tau$	$\tau$	$\tau$	<code>\mbfittau</code>	mathematical bold italic small tau
U+1D74A	$\upsilon$	$\upsilon$	$\upsilon$	$\upsilon$	$\upsilon$	$\upsilon$	$\upsilon$	<code>\mbfitupsilon</code>	mathematical bold italic small upsilon
U+1D74B	$\varphi$	$\varphi$	$\varphi$	$\varphi$	$\varphi$	$\varphi$	$\varphi$	<code>\mbfitvarphi</code>	mathematical bold italic small phi
U+1D74C	$\chi$	$\chi$	$\chi$	$\chi$	$\chi$	$\chi$	$\chi$	<code>\mbfitchi</code>	mathematical bold italic small chi
U+1D74D	$\psi$	$\psi$	$\psi$	$\psi$	$\psi$	$\psi$	$\psi$	<code>\mbfitpsi</code>	mathematical bold italic small psi
U+1D74E	$\omega$	$\omega$	$\omega$	$\omega$	$\omega$	$\omega$	$\omega$	<code>\mbfitomega</code>	mathematical bold italic small omega
U+1D74F	$\partial$	\partial	\partial	\partial	\partial	\partial	\partial	<code>\mbfitpartial</code>	mathematical bold italic partial differential
U+1D750	$\epsilon$	$\epsilon$	$\epsilon$	$\epsilon$	$\epsilon$	$\epsilon$	$\epsilon$	<code>\mbfitepsilon</code>	mathematical bold italic varepsilon symbol
U+1D751	$\vartheta$	$\vartheta$	$\vartheta$	$\vartheta$	$\vartheta$	$\vartheta$	$\vartheta$	<code>\mbfitvartheta</code>	mathematical bold italic theta symbol
U+1D752	$\kappa$	$\kappa$	$\kappa$	$\kappa$	$\kappa$	$\kappa$	$\kappa$	<code>\mbfitvarkappa</code>	mathematical bold italic kappa symbol
U+1D753	$\phi$	$\phi$	$\phi$	$\phi$	$\phi$	$\phi$	$\phi$	<code>\mbfitphi</code>	mathematical bold italic phi symbol
U+1D754	$\varrho$	$\varrho$	$\varrho$	$\varrho$	$\varrho$	$\varrho$	$\varrho$	<code>\mbfitvarrho</code>	mathematical bold italic rho symbol
U+1D755	$\varpi$	$\varpi$	$\varpi$	$\varpi$	$\varpi$	$\varpi$	$\varpi$	<code>\mbfitvarpi</code>	mathematical bold italic pi symbol

### 15.2.9 Bold script, Latin, uppercase

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

USV	M	S	C	P	D	L	G	Macro	Description
U+1D4D6	<i>Ḡ</i>	<i>Ḣ</i>	<i>Ḥ</i>	<i>Ḧ</i>	<i>Ḩ</i>	<i>Ḭ</i>	<i>Ḯ</i>	<code>\mbfscrG</code>	mathematical bold script capital g
U+1D4D7	<i>Ḫ</i>	<i>Ḭ</i>	<i>Ḯ</i>	<i>Ṁ</i>	<i>Ṃ</i>	<i>Ṅ</i>	<i>Ṇ</i>	<code>\mbfscrH</code>	mathematical bold script capital h
U+1D4D8	<i>Ṁ</i>	<i>Ṃ</i>	<i>Ṅ</i>	<i>Ṇ</i>	<i>Ṑ</i>	<i>Ṓ</i>	<i>Ṕ</i>	<code>\mbfscrI</code>	mathematical bold script capital i
U+1D4D9	<i>Ṁ</i>	<i>Ṃ</i>	<i>Ṅ</i>	<i>Ṇ</i>	<i>Ṑ</i>	<i>Ṓ</i>	<i>Ṕ</i>	<code>\mbfscrJ</code>	mathematical bold script capital j
U+1D4DA	<i>Ṁ</i>	<i>Ṃ</i>	<i>Ṅ</i>	<i>Ṇ</i>	<i>Ṑ</i>	<i>Ṓ</i>	<i>Ṕ</i>	<code>\mbfscrK</code>	mathematical bold script capital k
U+1D4DB	<i>Ṁ</i>	<i>Ṃ</i>	<i>Ṅ</i>	<i>Ṇ</i>	<i>Ṑ</i>	<i>Ṓ</i>	<i>Ṕ</i>	<code>\mbfscrL</code>	mathematical bold script capital l
U+1D4DC	<i>Ṁ</i>	<i>Ṃ</i>	<i>Ṅ</i>	<i>Ṇ</i>	<i>Ṑ</i>	<i>Ṓ</i>	<i>Ṕ</i>	<code>\mbfscrM</code>	mathematical bold script capital m
U+1D4DD	<i>Ṁ</i>	<i>Ṃ</i>	<i>Ṅ</i>	<i>Ṇ</i>	<i>Ṑ</i>	<i>Ṓ</i>	<i>Ṕ</i>	<code>\mbfscrN</code>	mathematical bold script capital n
U+1D4DE	<i>Ṁ</i>	<i>Ṃ</i>	<i>Ṅ</i>	<i>Ṇ</i>	<i>Ṑ</i>	<i>Ṓ</i>	<i>Ṕ</i>	<code>\mbfscrO</code>	mathematical bold script capital o
U+1D4DF	<i>Ṁ</i>	<i>Ṃ</i>	<i>Ṅ</i>	<i>Ṇ</i>	<i>Ṑ</i>	<i>Ṓ</i>	<i>Ṕ</i>	<code>\mbfscrP</code>	mathematical bold script capital p
U+1D4E0	<i>Ṁ</i>	<i>Ṃ</i>	<i>Ṅ</i>	<i>Ṇ</i>	<i>Ṑ</i>	<i>Ṓ</i>	<i>Ṕ</i>	<code>\mbfscrQ</code>	mathematical bold script capital q
U+1D4E1	<i>Ṁ</i>	<i>Ṃ</i>	<i>Ṅ</i>	<i>Ṇ</i>	<i>Ṑ</i>	<i>Ṓ</i>	<i>Ṕ</i>	<code>\mbfscrR</code>	mathematical bold script capital r
U+1D4E2	<i>Ṁ</i>	<i>Ṃ</i>	<i>Ṅ</i>	<i>Ṇ</i>	<i>Ṑ</i>	<i>Ṓ</i>	<i>Ṕ</i>	<code>\mbfscrS</code>	mathematical bold script capital s
U+1D4E3	<i>Ṁ</i>	<i>Ṃ</i>	<i>Ṅ</i>	<i>Ṇ</i>	<i>Ṑ</i>	<i>Ṓ</i>	<i>Ṕ</i>	<code>\mbfscrT</code>	mathematical bold script capital t
U+1D4E4	<i>Ṁ</i>	<i>Ṃ</i>	<i>Ṅ</i>	<i>Ṇ</i>	<i>Ṑ</i>	<i>Ṓ</i>	<i>Ṕ</i>	<code>\mbfscrU</code>	mathematical bold script capital u
U+1D4E5	<i>Ṁ</i>	<i>Ṃ</i>	<i>Ṅ</i>	<i>Ṇ</i>	<i>Ṑ</i>	<i>Ṓ</i>	<i>Ṕ</i>	<code>\mbfscrV</code>	mathematical bold script capital v
U+1D4E6	<i>Ṁ</i>	<i>Ṃ</i>	<i>Ṅ</i>	<i>Ṇ</i>	<i>Ṑ</i>	<i>Ṓ</i>	<i>Ṕ</i>	<code>\mbfscrW</code>	mathematical bold script capital w
U+1D4E7	<i>Ṁ</i>	<i>Ṃ</i>	<i>Ṅ</i>	<i>Ṇ</i>	<i>Ṑ</i>	<i>Ṓ</i>	<i>Ṕ</i>	<code>\mbfscrX</code>	mathematical bold script capital x
U+1D4E8	<i>Ṁ</i>	<i>Ṃ</i>	<i>Ṅ</i>	<i>Ṇ</i>	<i>Ṑ</i>	<i>Ṓ</i>	<i>Ṕ</i>	<code>\mbfscrY</code>	mathematical bold script capital y
U+1D4E9	<i>Ṁ</i>	<i>Ṃ</i>	<i>Ṅ</i>	<i>Ṇ</i>	<i>Ṑ</i>	<i>Ṓ</i>	<i>Ṕ</i>	<code>\mbfscrZ</code>	mathematical bold script capital z

### 15.2.10 Bold script, Latin, lowercase

USV	M	S	C	P	D	L	G	Macro	Description
U+1D4EA		<i>ṁ</i>		<i>ṃ</i>	<i>ṅ</i>	<i>ṇ</i>		<code>\mbfscra</code>	mathematical bold script small a
U+1D4EB		<i>ṁ</i>		<i>ṃ</i>	<i>ṅ</i>	<i>ṇ</i>		<code>\mbfscrb</code>	mathematical bold script small b

USV	M	S	C	P	D	L	G	Macro	Description
U+1D4EC		<i>c</i>		<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<code>\mbfscrc</code>	mathematical bold script small c
U+1D4ED		<i>d</i>		<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>	<code>\mbfscrd</code>	mathematical bold script small d
U+1D4EE		<i>e</i>		<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>	<code>\mbfscree</code>	mathematical bold script small e
U+1D4EF		<i>f</i>		<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>	<code>\mbfscrf</code>	mathematical bold script small f
U+1D4F0		<i>g</i>		<i>g</i>	<i>g</i>	<i>g</i>	<i>g</i>	<code>\mbfscrg</code>	mathematical bold script small g
U+1D4F1		<i>h</i>		<i>h</i>	<i>h</i>	<i>h</i>	<i>h</i>	<code>\mbfscrh</code>	mathematical bold script small h
U+1D4F2		<i>i</i>		<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>	<code>\mbfscri</code>	mathematical bold script small i
U+1D4F3		<i>j</i>		<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>	<code>\mbfscrj</code>	mathematical bold script small j
U+1D4F4		<i>k</i>		<i>k</i>	<i>k</i>	<i>k</i>	<i>k</i>	<code>\mbfscrk</code>	mathematical bold script small k
U+1D4F5		<i>l</i>		<i>l</i>	<i>l</i>	<i>l</i>	<i>l</i>	<code>\mbfscr1</code>	mathematical bold script small l
U+1D4F6		<i>m</i>		<i>m</i>	<i>m</i>	<i>m</i>	<i>m</i>	<code>\mbfscrm</code>	mathematical bold script small m
U+1D4F7		<i>n</i>		<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<code>\mbfscrn</code>	mathematical bold script small n
U+1D4F8		<i>o</i>		<i>o</i>	<i>o</i>	<i>o</i>	<i>o</i>	<code>\mbfscro</code>	mathematical bold script small o
U+1D4F9		<i>p</i>		<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>	<code>\mbfscrp</code>	mathematical bold script small p
U+1D4FA		<i>q</i>		<i>q</i>	<i>q</i>	<i>q</i>	<i>q</i>	<code>\mbfscrq</code>	mathematical bold script small q
U+1D4FB		<i>r</i>		<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<code>\mbfscrr</code>	mathematical bold script small r
U+1D4FC		<i>s</i>		<i>s</i>	<i>s</i>	<i>s</i>	<i>s</i>	<code>\mbfscrs</code>	mathematical bold script small s
U+1D4FD		<i>t</i>		<i>t</i>	<i>t</i>	<i>t</i>	<i>t</i>	<code>\mbfscrt</code>	mathematical bold script small t
U+1D4FE		<i>u</i>		<i>u</i>	<i>u</i>	<i>u</i>	<i>u</i>	<code>\mbfscru</code>	mathematical bold script small u
U+1D4FF		<i>v</i>		<i>v</i>	<i>v</i>	<i>v</i>	<i>v</i>	<code>\mbfscr1</code>	mathematical bold script small v
U+1D500		<i>w</i>		<i>w</i>	<i>w</i>	<i>w</i>	<i>w</i>	<code>\mbfscrw</code>	mathematical bold script small w
U+1D501		<i>x</i>		<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>	<code>\mbfscrx</code>	mathematical bold script small x
U+1D502		<i>y</i>		<i>y</i>	<i>y</i>	<i>y</i>	<i>y</i>	<code>\mbfscry</code>	mathematical bold script small y
U+1D503		<i>z</i>		<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>	<code>\mbfscrz</code>	mathematical bold script small z

### 15.2.11 Bold fraktur, Latin, uppercase

USV	M	S	C	P	D	L	G	Macro	Description
U+1D56C	𐒐	𐒑	𐒒	𐒓	𐒔	𐒕	𐒖	\mbffrakA	mathematical bold fraktur capital a
U+1D56D	𐒗	𐒘	𐒙	𐒚	𐒛	𐒜	𐒝	\mbffrakB	mathematical bold fraktur capital b
U+1D56E	𐒞	𐒟	𐒠	𐒡	𐒢	𐒣	𐒤	\mbffrakC	mathematical bold fraktur capital c
U+1D56F	𐒥	𐒦	𐒧	𐒨	𐒩	𐒪	𐒫	\mbffrakD	mathematical bold fraktur capital d
U+1D570	𐒬	𐒭	𐒮	𐒯	𐒰	𐒱	𐒲	\mbffrakE	mathematical bold fraktur capital e
U+1D571	𐒳	𐒴	𐒵	𐒶	𐒷	𐒸	𐒹	\mbffrakF	mathematical bold fraktur capital f
U+1D572	𐒺	𐒻	𐒼	𐒽	𐒾	𐒿	𐓀	\mbffrakG	mathematical bold fraktur capital g
U+1D573	𐓁	𐓂	𐓃	𐓄	𐓅	𐓆	𐓇	\mbffrakH	mathematical bold fraktur capital h
U+1D574	𐓈	𐓉	𐓊	𐓋	𐓌	𐓍	𐓎	\mbffrakI	mathematical bold fraktur capital i
U+1D575	𐓏	𐓐	𐓑	𐓒	𐓓	𐓔	𐓕	\mbffrakJ	mathematical bold fraktur capital j
U+1D576	𐓖	𐓗	𐓘	𐓙	𐓚	𐓛	𐓜	\mbffrakK	mathematical bold fraktur capital k
U+1D577	𐓝	𐓞	𐓟	𐓠	𐓡	𐓢	𐓣	\mbffrakL	mathematical bold fraktur capital l
U+1D578	𐓤	𐓥	𐓦	𐓧	𐓨	𐓩	𐓪	\mbffrakM	mathematical bold fraktur capital m
U+1D579	𐓫	𐓬	𐓭	𐓮	𐓯	𐓰	𐓱	\mbffrakN	mathematical bold fraktur capital n
U+1D57A	𐓲	𐓳	𐓴	𐓵	𐓶	𐓷	𐓸	\mbffrakO	mathematical bold fraktur capital o
U+1D57B	𐓹	𐓺	𐓻	𐓼	𐓽	𐓾	𐓿	\mbffrakP	mathematical bold fraktur capital p
U+1D57C	𐔀	𐔁	𐔂	𐔃	𐔄	𐔅	𐔆	\mbffrakQ	mathematical bold fraktur capital q
U+1D57D	𐔇	𐔈	𐔉	𐔊	𐔋	𐔌	𐔍	\mbffrakR	mathematical bold fraktur capital r
U+1D57E	𐔎	𐔏	𐔐	𐔑	𐔒	𐔓	𐔔	\mbffrakS	mathematical bold fraktur capital s
U+1D57F	𐔕	𐔖	𐔗	𐔘	𐔙	𐔚	𐔛	\mbffrakT	mathematical bold fraktur capital t
U+1D580	𐔜	𐔝	𐔞	𐔟	𐔠	𐔡	𐔢	\mbffrakU	mathematical bold fraktur capital u
U+1D581	𐔣	𐔤	𐔥	𐔦	𐔧	𐔨	𐔩	\mbffrakV	mathematical bold fraktur capital v
U+1D582	𐔪	𐔫	𐔬	𐔭	𐔮	𐔯	𐔰	\mbffrakW	mathematical bold fraktur capital w
U+1D583	𐔱	𐔲	𐔳	𐔴	𐔵	𐔶	𐔷	\mbffrakX	mathematical bold fraktur capital x
U+1D584	𐔸	𐔹	𐔺	𐔻	𐔼	𐔽	𐔾	\mbffrakY	mathematical bold fraktur capital y
U+1D585	𐔿	𐕀	𐕁	𐕂	𐕃	𐕄	𐕅	\mbffrakZ	mathematical bold fraktur capital z

USV	M	S	C	P	D	L	G	Macro	Description
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### 15.2.12 Bold fraktur, Latin, lowercase

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

USV	M	S	C	P	D	L	G	Macro	Description
U+1D59E	Ŷ	ŷ	Ÿ	Ź	Ż	Ł	ł	<code>\mbffraky</code>	mathematical bold fraktur small y
U+1D59F	Ẓ	ẓ	Ẕ	ẕ	ẖ	ẗ	ẘ	<code>\mbffrakz</code>	mathematical bold fraktur small z

### 15.2.13 Bold sans serif, Latin, uppercase

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

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

### 15.2.14 Bold sans serif, Latin, lowercase

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

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

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

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

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

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

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

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

### 15.2.17 Bold sans serif Greek, uppercase

USV	M	S	C	P	D	L	G	Macro	Description
U+1D756	<b>Α</b>	Α	Α	Α	Α	Α	Α	<code>\mbfsansAlpha</code>	mathematical sans-serif bold capital alpha
U+1D757	<b>Β</b>	Β	Β	Β	Β	Β	Β	<code>\mbfsansBeta</code>	mathematical sans-serif bold capital beta
U+1D758	<b>Γ</b>	Γ	Γ	Γ	Γ	Γ	Γ	<code>\mbfsansGamma</code>	mathematical sans-serif bold capital gamma
U+1D759	Δ	Δ	Δ	Δ	Δ	Δ	<b>Δ</b>	<code>\mbfsansDelta</code>	mathematical sans-serif bold capital delta

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

### 15.2.18 Bold sans serif Greek, lowercase

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

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

USV	M	S	C	P	D	L	G	Macro	Description
U+1D78B	ϑ	ϑ	ϑ	ϑ	ϑ	ϑ	ϑ	<code>\mbfsansvartheta</code>	mathematical sans-serif bold theta symbol
U+1D78C	κ	κ	κ	κ	κ			<code>\mbfsansvarkappa</code>	mathematical sans-serif bold kappa symbol
U+1D78D	ϕ	ϕ	ϕ	ϕ	ϕ			<code>\mbfsansphi</code>	mathematical sans-serif bold phi symbol
U+1D78E	ρ	ρ	ρ	ρ	ρ			<code>\mbfsansvarrho</code>	mathematical sans-serif bold rho symbol
U+1D78F	ω	ω	ω	ω	ω			<code>\mbfsansvarpi</code>	mathematical sans-serif bold pi symbol

### 15.2.19 Bold italic sans serif Greek, uppercase

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

USV	M	S	C	P	D	L	G	Macro	Description
U+1D7A1	<b>Θ</b>	<b>θ</b>	<b>Θ</b>	<b>θ</b>	<b>Θ</b>	<b>θ</b>		<code>\mbfitsansvarTheta</code>	mathematical sans-serif bold italic capital theta symbol
U+1D7A2	<b>Σ</b>	<b>σ</b>	<b>Σ</b>	<b>σ</b>	<b>Σ</b>	<b>σ</b>		<code>\mbfitsansSigma</code>	mathematical sans-serif bold italic capital sigma
U+1D7A3	<b>Τ</b>	<b>τ</b>	<b>Τ</b>	<b>τ</b>	<b>Τ</b>	<b>τ</b>		<code>\mbfitsansTau</code>	mathematical sans-serif bold italic capital tau
U+1D7A4	<b>Υ</b>	<b>υ</b>	<b>Υ</b>	<b>υ</b>	<b>Υ</b>	<b>υ</b>		<code>\mbfitsansUpsilon</code>	mathematical sans-serif bold italic capital upsilon
U+1D7A5	<b>Φ</b>	<b>φ</b>	<b>Φ</b>	<b>φ</b>	<b>Φ</b>	<b>φ</b>		<code>\mbfitsansPhi</code>	mathematical sans-serif bold italic capital phi
U+1D7A6	<b>Χ</b>	<b>χ</b>	<b>Χ</b>	<b>χ</b>	<b>Χ</b>	<b>χ</b>		<code>\mbfitsansChi</code>	mathematical sans-serif bold italic capital chi
U+1D7A7	<b>Ψ</b>	<b>ψ</b>	<b>Ψ</b>	<b>ψ</b>	<b>Ψ</b>	<b>ψ</b>		<code>\mbfitsansPsi</code>	mathematical sans-serif bold italic capital psi
U+1D7A8	<b>Ω</b>	<b>ω</b>	<b>Ω</b>	<b>ω</b>	<b>Ω</b>	<b>ω</b>		<code>\mbfitsansOmega</code>	mathematical sans-serif bold italic capital omega

### 15.2.20 Bold italic sans serif Greek, lowercase

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

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

### 15.3 Miscellaneous

USV	M	S	C	P	D	L	G	Macro	Description
U+000F0	<b>ð</b>	<i>ð</i>	<b>ð</b>	<i>ð</i>	<b>ð</b>	<i>ð</i>		<code>\matheth</code>	eth
U+02010	-	-	-	-	-	-	-	<code>\mathhyphen</code>	hyphen
U+02102	<b>Ɔ</b>	<i>Ɔ</i>	<b>Ɔ</b>	<i>Ɔ</i>	<b>Ɔ</b>	<i>Ɔ</i>		<code>\BbbC</code>	/bbb c, open face c
U+0210A		<i>g</i>	<b>g</b>	<i>g</i>	<b>g</b>	<i>g</i>		<code>\mscrg</code>	/scr g, script letter g
U+0210B	<b>ℋ</b>	<i>ℋ</i>	<b>ℋ</b>	<i>ℋ</i>	<b>ℋ</b>	<i>ℋ</i>		<code>\mscrH</code>	hamiltonian (script capital h)
U+0210C	<b>ℎ</b>	<i>ℎ</i>	<b>ℎ</b>	<i>ℎ</i>	<b>ℎ</b>	<i>ℎ</i>		<code>\mfracH</code>	/frac h, upper case h

USV	M	S	C	P	D	L	G	Macro	Description
U+0210D	Ⓕ	Ⓜ	Ⓝ	Ⓟ	Ⓡ	Ⓛ	Ⓢ	<code>\BbbH</code>	/bbb h, open face h
U+0210F	ℏ	ℓ̂	ℓ̂	ℓ̂	ℓ̂	ℓ̂	ℓ̂	<code>\hslash<sup>(a)</sup></code>	/hslash - variant planck's over 2pi
U+02110	ℐ	ℑ	ℒ	ℓ	ℓ	ℓ	ℓ	<code>\mscrI</code>	/scr i, script letter i
U+02111	ℑ	ℑ	ℑ	ℑ	ℑ	ℑ	ℑ	<code>\Im<sup>(p)</sup></code>	imaginary part
U+02112	ℒ	ℒ	ℒ	ℒ	ℒ	ℒ	ℒ	<code>\mscrL</code>	lagrangian (script capital l)
U+02113	ℓ	ℓ	ℓ	ℓ	ℓ	ℓ	ℓ	<code>\ell<sup>(p)</sup></code>	cursive small l
U+02115	Ⓝ	Ⓞ	Ⓟ	Ⓠ	Ⓡ	Ⓢ	Ⓣ	<code>\BbbN</code>	/bbb n, open face n
U+02118	℘	℘	℘	℘	℘	℘	℘	<code>\wp<sup>(p)</sup></code>	weierstrass p
U+02119	Ⓟ	Ⓠ	Ⓡ	Ⓢ	Ⓣ	Ⓤ	Ⓥ	<code>\BbbP</code>	/bbb p, open face p
U+0211A	Ⓠ	Ⓡ	Ⓢ	Ⓣ	Ⓤ	Ⓥ	Ⓦ	<code>\BbbQ</code>	/bbb q, open face q
U+0211B	℞	ℙ	ℚ	ℓ	ℓ	ℓ	ℓ	<code>\mscrR</code>	/scr r, script letter r
U+0211C	℞	ℙ	ℚ	ℓ	ℓ	ℓ	ℓ	<code>\Re<sup>(p)</sup></code>	real part
U+0211D	℞	ℙ	ℚ	ℓ	ℓ	ℓ	ℓ	<code>\BbbR</code>	/bbb r, open face r
U+02124	Ⓤ	Ⓥ	Ⓦ	Ⓧ	Ⓨ	Ⓩ	ⓐ	<code>\BbbZ</code>	/bbb z, open face z
U+02128	ℤ	ℤ	ℤ	ℤ	ℤ	ℤ	ℤ	<code>\mfracZ</code>	/frac z, upper case z
U+02129		ι						<code>\turnediota</code>	turned iota
U+0212B	Å	Å	Å	Å	Å		Å	<code>\Angstrom</code>	angstrom capital a, ring
U+0212C	ℬ	ℬ	ℬ	ℬ	ℬ	ℬ	ℬ	<code>\mscrB</code>	bernoulli function (script capital b)
U+0212D	℄	℄	℄	℄	℄	℄	℄	<code>\mfracC</code>	black-letter capital c
U+0212F		ℓ	ℓ	ℓ	ℓ	ℓ	ℓ	<code>\mscre</code>	/scr e, script letter e
U+02130	ℰ	ℰ	ℰ	ℰ	ℰ	ℰ	ℰ	<code>\mscrE</code>	/scr e, script letter e
U+02131	ℱ	ℱ	ℱ	ℱ	ℱ	ℱ	ℱ	<code>\mscrF</code>	/scr f, script letter f
U+02133	ℳ	ℳ	ℳ	ℳ	ℳ	ℳ	ℳ	<code>\mscrM</code>	physics m-matrix (script capital m)
U+02134		ℴ	ℴ	ℴ	ℴ	ℴ	ℴ	<code>\mscro</code>	order of (script small o)
U+02135	ℵ	ℵ	ℵ	ℵ	ℵ	ℵ	ℵ	<code>\aleph<sup>(p)</sup></code>	aleph, hebrew
U+02136	ℶ	ℶ	ℶ	ℶ	ℶ	ℶ	ℶ	<code>\beth<sup>(a)</sup></code>	beth, hebrew
U+02137	ℷ	ℷ	ℷ	ℷ	ℷ	ℷ	ℷ	<code>\gimel<sup>(a)</sup></code>	gimel, hebrew
U+02138	ℸ	ℸ	ℸ	ℸ	ℸ	ℸ	ℸ	<code>\daleth<sup>(a)</sup></code>	daleth, hebrew
U+0213D	ℳ	ℳ		ℳ	ℳ		ℳ	<code>\Bbbgamma</code>	double-struck small gamma
U+0213E	ℳ	ℳ		ℳ	ℳ		ℳ	<code>\BbbGamma</code>	double-struck capital gamma
U+0213F	ℳ	ℳ		ℳ	ℳ		ℳ	<code>\BbbPi</code>	double-struck capital pi
U+02202	∂	∂	∂	∂	∂	∂	∂	<code>\partial<sup>(p)</sup></code>	partial differential
U+02207	∇	∇	∇	∇	∇	∇	∇	<code>\nabla<sup>(p)</sup></code>	nabla, del, hamilton operator

USV	M	S	C	P	D	L	G	Macro	Description
U+1D6A4	<i>ı</i>	<i>l</i>	<i>ı</i>	<i>l</i>	<i>ı</i>	<i>l</i>	<i>ı</i>	$\backslash\mathit{^p}$	mathematical italic small dotless i
U+1D6A5	<i>ȵ</i>	<i>J</i>	<i>ȵ</i>	<i>J</i>	<i>ȵ</i>	<i>J</i>	<i>ȵ</i>	$\backslash\mathit{^p}$	mathematical italic small dotless j
U+1D6C1	<b>∇</b>	∇	∇	∇	∇	∇	∇	$\backslash\mathbf{fnabla}$	mathematical bold nabla
U+1D6FB	<b>∇</b>	∇	∇	∇	∇	∇	∇	$\backslash\mathit{mitnabla}$	mathematical italic nabla
U+1D735	<b>∇</b>	∇	∇	∇	∇	∇	∇	$\backslash\mathbf{fitnabla}$	mathematical bold italic nabla
U+1D76F	<b>∇</b>	∇	∇	∇	∇	∇	∇	$\backslash\mathbf{fsansnabla}$	mathematical sans-serif bold nabla
U+1D7A9	<b>∇</b>	∇	∇	∇	∇	∇	∇	$\backslash\mathbf{fitsansnabla}$	mathematical sans-serif bold italic nabla
U+1D7CA		<b>F</b>				<b>F</b>		$\backslash\mathbf{fDigamma}$	mathematical bold capital digamma
U+1D7CB		<b>f</b>				<b>f</b>		$\backslash\mathbf{fdigamma}$	mathematical bold small digamma