

# Symbols defined by unicode-math

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Modified (df) to show some Sans-Serif 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. It compares (with approximate symbol counts) two reference fonts (Latin Modern and Cambria) to five sans-serif fonts:

C **Cambria Math** (2192)

M **Latin Modern Math** (1602)

Lu **Luciole Math** (1577)

K **KpSans Math** (1618)

Le **Lete Sans Math** (2330)

N **Noto Sans Math** (2447)

F **Fira Math** (1068)

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

Note that this list of fonts is not intended to be exhaustive but I am happy to add new fonts by request if they are distributed in  $\mathrm{T}_{\mathrm{E}}\mathrm{X}$  Live.<sup>1</sup>

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<sup>1</sup>Only a single  $\mathrm{T}_{\mathrm{E}}\mathrm{X}$  Gyre Math font is shown here by design as they all largely have the same symbol coverage.

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# 1 Opening symbols, \mathopen

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

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+02995	⧻				⧻	⧻		\Lparengtr	double left arc greater-than bracket
U+02997	⧻				⧻	⧻		\lblkbrbrak	left black tortoise shell bracket
U+029D8	⧻				⧻	⧻		\lvzigzag	left wiggly fence
U+029DA	⧻				⧻	⧻		\Lvzigzag	left double wiggly fence
U+029FC	⧻				⧻	⧻		\lcurvyangle	left pointing curved angle bracket

## 2 Closing symbols, \mathclose

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+00021	!	!	!	!	!	!	!	\matheclam	exclamation mark
U+00029	)	)	)	)	)	)	)	\rparen	right parenthesis
U+0005D	]	]	]	]	]	]	]	\rbrack	right square bracket
U+0007D	}	}	}	}	}	}	}	\rbrace <sup>(p)</sup>	right curly bracket
U+02309	⌋	⌋	⌋	⌋	⌋	⌋	⌋	\rceil <sup>(p)</sup>	right ceiling
U+0230B	⌋	⌋	⌋	⌋	⌋	⌋	⌋	\rfloor <sup>(p)</sup>	right floor
U+0231D	⌋	⌋	⌋	⌋	⌋	⌋	⌋	\urcorner	upper right corner
U+0231F	⌋	⌋	⌋	⌋	⌋	⌋	⌋	\lrcorner	lower right corner
U+023B1	⌋	⌋	⌋	⌋	⌋	⌋	⌋	\rmoustache <sup>(p)</sup>	upper right or lower left curly bracket section
U+02773					)	)	)	\rbrbrak	light right tortoise shell bracket ornament
U+027C6				⌋	⌋	⌋	⌋	\rbag	right s-shaped bag delimiter
U+027E7	⌋	⌋	⌋	⌋	⌋	⌋	⌋	\rBrack	mathematical right white square bracket
U+027E9	⌋	⌋	⌋	⌋	⌋	⌋	⌋	\rangle <sup>(p)</sup>	mathematical right angle bracket
U+027EB	⌋	⌋	⌋	⌋	⌋	⌋	⌋	\rAngle	mathematical right double angle bracket
U+027ED					⌋	⌋	⌋	\Rbrbrak	mathematical right white tortoise shell bracket
U+027EF		)	)	)	)	)	)	\rgroup <sup>(p)</sup>	mathematical right flattened parenthesis
U+02984	⌋					⌋	⌋	\rBrace	right white curly bracket
U+02986	⌋					⌋	⌋	\rParen	right white parenthesis
U+02988	⌋				⌋	⌋	⌋	\rrparenthesis	z notation right image bracket
U+0298A	⌋				⌋	⌋	⌋	\rrangle	z notation right binding bracket
U+0298C	⌋				⌋	⌋	⌋	\rbrackubar	right square bracket with underbar
U+0298E	⌋				⌋	⌋	⌋	\rbracklrtick	right square bracket with tick in bottom corner
U+02990	⌋				⌋	⌋	⌋	\rbrackurtick	right square bracket with tick in top corner
U+02992	⌋				⌋	⌋	⌋	\rangledot	right angle bracket with dot
U+02994	⌋				⌋	⌋	⌋	\rpargtr	right arc greater-than bracket
U+02996	⌋				⌋	⌋	⌋	\Rparenless	double right arc less-than bracket
U+02998	⌋				⌋	⌋	⌋	\rblbrbrak	right black tortoise shell bracket
U+029D9	⌋				⌋	⌋	⌋	\rvzigzag	right wiggly fence

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+029DB	⌘				⌘	⌘		<code>\Rvzigzag</code>	right double wiggly fence
U+029FD	⌞				⌞	⌞		<code>\rcurvyangle</code>	right pointing curved angle bracket

### 3 Fence symbols, `\mathfence`

USV	C	M	Lu	K	Le	N	F	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	C	M	Lu	K	Le	N	F	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	C	M	Lu	K	Le	N	F	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	C	M	Lu	K	Le	N	F	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	C	M	Lu	K	Le	N	F	Macro	Description
u+00300	grave accent							<code>\grave{p}</code>	grave accent
u+00301	acute accent							<code>\acute{p}</code>	acute accent
u+00302	circumflex accent							<code>\hat{p}</code>	circumflex accent
u+00303	tilde							<code>\tilde{p}</code>	tilde
u+00304	macron							<code>\bar{p}</code>	macron
u+00305	overbar embellishment							<code>\overbar</code>	overbar embellishment
u+00306	breve							<code>\breve{p}</code>	breve
u+00307	dot above							<code>\dot{p}</code>	dot above
u+00308	dieresis							<code>\ddot{p}</code>	dieresis
u+00309	combining hook above							<code>\ovhook</code>	combining hook above
u+0030A	ring							<code>\ocirc</code>	ring
u+0030C	caron							<code>\check{p}</code>	caron
u+00310	candrabindu (non-spacing)							<code>\candra</code>	candrabindu (non-spacing)
u+00312	combining turned comma above							<code>\oturnedcomma</code>	combining turned comma above
u+00315	combining comma above right							<code>\ocommatopright</code>	combining comma above right
u+0031A	left angle above (non-spacing)							<code>\droang</code>	left angle above (non-spacing)
u+020D0	combining left harpoon above							<code>\leftharpoonaccent</code>	combining left harpoon above
u+020D1	combining right harpoon above							<code>\rightharpoonaccent</code>	combining right harpoon above
u+020D2	combining long vertical line overlay							<code>\vertoverlay</code>	combining long vertical line overlay
u+020D7	combining right arrow above							<code>\vec{p}</code>	combining right arrow above
u+020DB	combining three dots above							<code>\ddd\dot</code>	combining three dots above
u+020DC	combining four dots above							<code>\dddd\dot</code>	combining four dots above
u+020E7	combining annuity symbol							<code>\annuity</code>	combining annuity symbol
u+020E9	combining wide bridge above							<code>\widebridgeabove</code>	combining wide bridge above
u+020F0	combining asterisk above							<code>\asteraccent</code>	combining asterisk above

## 8 Accents wide, `\mathaccentwide`



USV	C	M	Lu	K	Le	N	F	Macro	Description
U+00302	$\widehat{x+y}$	$\widehat{x+y}$	$\widehat{x+y}$	$\widehat{x+y}$	$\widehat{x+y}$	$\widehat{x+y}$	$x\hat{+}y$	<code>\widehat{<sup>(p)</sup>}</code>	circumflex accent
U+00303	$\widetilde{x+y}$	$\widetilde{x+y}$	$\widetilde{x+y}$	$\widetilde{x+y}$	$\widetilde{x+y}$	$\widetilde{x+y}$	$x\tilde{+}y$	<code>\widetilde{<sup>(p)</sup>}</code>	tilde
U+00305	$\overline{x+y}$	$\overline{x+y}$	$\overline{x+y}$	$\overline{x+y}$	$\overline{x+y}$	$\overline{x+y}$	$x\overline{+}y$	<code>\wideoverbar</code>	stretchy overbar embellishment
U+00306	$\breve{x+y}$	$\breve{x+y}$	$\breve{x+y}$	$\breve{x+y}$	$\breve{x+y}$	$\breve{x+y}$	$x\breve{+}y$	<code>\widebreve</code>	stretchy breve
U+0030C	$\check{x+y}$	$\check{x+y}$	$\check{x+y}$	$\check{x+y}$	$\check{x+y}$	$\check{x+y}$	$x\check{+}y$	<code>\widecheck</code>	stretchy caron
U+020D0	$\overleftarrow{x+y}$	$\overleftarrow{x+y}$	$\overleftarrow{x+y}$	$\overleftarrow{x+y}$	$\overleftarrow{x+y}$	$\overleftarrow{x+y}$	$x\overleftarrow{+}y$	<code>\overleftharpoonup</code>	combining left harpoon above
U+020D1	$\overrightarrow{x+y}$	$\overrightarrow{x+y}$	$\overrightarrow{x+y}$	$\overrightarrow{x+y}$	$\overrightarrow{x+y}$	$\overrightarrow{x+y}$	$x\overrightarrow{+}y$	<code>\overrightharpoonup</code>	combining right harpoon above
U+020D6	$\overleftarrow{\rightarrow}x+y$	$\overleftarrow{\rightarrow}x+y$	$\overleftarrow{\rightarrow}x+y$	$\overleftarrow{\rightarrow}x+y$	$\overleftarrow{\rightarrow}x+y$	$\overleftarrow{\rightarrow}x+y$	$x\overleftarrow{\rightarrow}+y$	<code>\overleftarrow{\rightarrow}^{(p)}</code>	combining left arrow above
U+020D7	$\overrightarrow{\leftarrow}x+y$	$\overrightarrow{\leftarrow}x+y$	$\overrightarrow{\leftarrow}x+y$	$\overrightarrow{\leftarrow}x+y$	$\overrightarrow{\leftarrow}x+y$	$\overrightarrow{\leftarrow}x+y$	$x\overrightarrow{\leftarrow}+y$	<code>\overrightarrow{\leftarrow}^{(p)}</code>	combining left arrow above
U+020E1	$\overleftrightarrow{x+y}$	$\overleftrightarrow{x+y}$	$\overleftrightarrow{x+y}$	$\overleftrightarrow{x+y}$	$\overleftrightarrow{x+y}$	$\overleftrightarrow{x+y}$	$x\overleftrightarrow{+}y$	<code>\overleftrightharpoonup</code>	combining left right arrow above

## 9 Bottom accents, `\mathbotaccent`

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+020E8	$\underset{\cdot}{x}$	$\underset{\cdot}{x}$	$\underset{\cdot}{x}$	$\underset{\cdot}{x}$	$\underset{\cdot}{x}$	$\underset{\cdot}{x}$	$\underset{\cdot}{x}$	<code>\threeunderdot</code>	combining triple underdot




































































































## 10 Bottom accents wide, `\mathbotaccentwide`


























































USV	C	M	Lu	K	Le	N	F	Macro	Description
U+00330	$\underset{\sim}{x+y}$	$\underset{\sim}{x+y}$	$\underset{\sim}{x+y}$	$\underset{\sim}{x+y}$	$\underset{\sim}{x+y}$	$\underset{\sim}{x+y}$	$x\underset{\sim}{+}y$	<code>\wideutilde</code>	under tilde accent (multiple characters and non-spacing)
U+00332	$\mathstrut\underset{\rule{0.5pt}{0.5pt}}{x+y}$	$\mathstrut\underset{\rule{0.5pt}{0.5pt}}{x+y}$	$\mathstrut\underset{\rule{0.5pt}{0.5pt}}{x+y}$	$\mathstrut\underset{\rule{0.5pt}{0.5pt}}{x+y}$	$\mathstrut\underset{\rule{0.5pt}{0.5pt}}{x+y}$	$\mathstrut\underset{\rule{0.5pt}{0.5pt}}{x+y}$	$x\mathstrut\underset{\rule{0.5pt}{0.5pt}}{+}y$	<code>\mathunderbar</code>	combining low line
U+0034D	$\mathstrut\overleftrightarrow{\mathstrut}x+y$	$\mathstrut\overleftrightarrow{\mathstrut}x+y$	$\mathstrut\overleftrightarrow{\mathstrut}x+y$	$\mathstrut\overleftrightarrow{\mathstrut}x+y$	$\mathstrut\overleftrightarrow{\mathstrut}x+y$	$\mathstrut\overleftrightarrow{\mathstrut}x+y$		<code>\underleftrightharpoonup</code>	underleftrightharpoonup accent
U+020EC		$\underset{\hookdown}{x+y}$	$\underset{\hookdown}{x+y}$	$\underset{\hookdown}{x+y}$	$\underset{\hookdown}{x+y}$	$\underset{\hookdown}{x+y}$	$x\underset{\hookdown}{+}y$	<code>\underrightharpoonowdown</code>	combining rightwards harpoon with barb downwards
U+020ED		$\underset{\leftharpoonowdown}{x+y}$	$\underset{\leftharpoonowdown}{x+y}$	$\underset{\leftharpoonowdown}{x+y}$	$\underset{\leftharpoonowdown}{x+y}$	$\underset{\leftharpoonowdown}{x+y}$	$x\underset{\leftharpoonowdown}{+}y$	<code>\underleftharpoonowdown</code>	combining leftwards harpoon with barb downwards
U+020EE		$\underset{\leftarrow}{x+y}$	$\underset{\leftarrow}{x+y}$	$\underset{\leftarrow}{x+y}$	$\underset{\leftarrow}{x+y}$	$\underset{\leftarrow}{x+y}$	$x\underset{\leftarrow}{+}y$	<code>\underleftarrow</code>	combining left arrow below
U+020EF		$\underset{\rightarrow}{x+y}$	$\underset{\rightarrow}{x+y}$	$\underset{\rightarrow}{x+y}$	$\underset{\rightarrow}{x+y}$	$\underset{\rightarrow}{x+y}$	$x\underset{\rightarrow}{+}y$	<code>\underrightarrow</code>	combining right arrow below

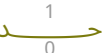
## 11 Big operators, \mathop

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	C	M	Lu	K	Le	N	F	Macro	Description
U+02140	$\sum\limits_0^1$	$\sum\limits_0^1$	$\sum\limits_0^1$	$\sum\limits_0^1$	$\sum\limits_0^1$	$\sum\limits_0^1$	$\sum\limits_0^1$	\Bbbsum	double-struck n-ary summation
U+0220F	$\prod\limits_0^1$	$\prod\limits_0^1$	$\prod\limits_0^1$	$\prod\limits_0^1$	$\prod\limits_0^1$	$\prod\limits_0^1$	$\prod\limits_0^1$	\prod <sup>(p)</sup>	product operator
U+02210	$\coprod\limits_0^1$	$\coprod\limits_0^1$	$\coprod\limits_0^1$	$\coprod\limits_0^1$	$\coprod\limits_0^1$	$\coprod\limits_0^1$	$\coprod\limits_0^1$	\coprod <sup>(p)</sup>	coproduct operator
U+02211	$\sum\limits_0^1$	$\sum\limits_0^1$	$\sum\limits_0^1$	$\sum\limits_0^1$	$\sum\limits_0^1$	$\sum\limits_0^1$	$\sum\limits_0^1$	\sum <sup>(p)</sup>	summation operator
U+0222B	$\int\limits_0^1$	$\int\limits_0^1$	$\int\limits_0^1$	$\int\limits_0^1$	$\int\limits_0^1$	$\int\limits_0^1$	$\int\limits_0^1$	\int <sup>(p)</sup>	integral operator
U+0222C	$\iint\limits_0^1$	$\iint\limits_0^1$	$\iint\limits_0^1$	$\iint\limits_0^1$	$\iint\limits_0^1$	$\iint\limits_0^1$	$\iint\limits_0^1$	\iint	double integral operator
U+0222D	$\iiint\limits_0^1$	$\iiint\limits_0^1$	$\iiint\limits_0^1$	$\iiint\limits_0^1$	$\iiint\limits_0^1$	$\iiint\limits_0^1$	$\iiint\limits_0^1$	\iiint	triple integral operator
U+0222E	$\oint\limits_0^1$	$\oint\limits_0^1$	$\oint\limits_0^1$	$\oint\limits_0^1$	$\oint\limits_0^1$	$\oint\limits_0^1$	$\oint\limits_0^1$	\oint <sup>(p)</sup>	contour integral operator
U+0222F	$\oiint\limits_0^1$	$\oiint\limits_0^1$	$\oiint\limits_0^1$	$\oiint\limits_0^1$	$\oiint\limits_0^1$	$\oiint\limits_0^1$	$\oiint\limits_0^1$	\oiint	double contour integral operator
U+02230	$\oiint\limits_0^1$	$\oiint\limits_0^1$	$\oiint\limits_0^1$	$\oiint\limits_0^1$	$\oiint\limits_0^1$	$\oiint\limits_0^1$	$\oiint\limits_0^1$	\oiint	double contour integral operator
U+02231	$\oint\limits_0^1$	$\oint\limits_0^1$	$\oint\limits_0^1$	$\oint\limits_0^1$	$\oint\limits_0^1$	$\oint\limits_0^1$	$\oint\limits_0^1$	\intclockwise	clockwise integral
U+02232	$\oint\limits_0^1$	$\oint\limits_0^1$	$\oint\limits_0^1$	$\oint\limits_0^1$	$\oint\limits_0^1$	$\oint\limits_0^1$	$\oint\limits_0^1$	\varointclockwise	contour integral, clockwise
U+02233	$\oint\limits_0^1$	$\oint\limits_0^1$	$\oint\limits_0^1$	$\oint\limits_0^1$	$\oint\limits_0^1$	$\oint\limits_0^1$	$\oint\limits_0^1$	\ointctrclockwise	contour integral, anticlockwise
U+022C0	$\bigwedge\limits_0^1$	$\bigwedge\limits_0^1$	$\bigwedge\limits_0^1$	$\bigwedge\limits_0^1$	$\bigwedge\limits_0^1$	$\bigwedge\limits_0^1$	$\bigwedge\limits_0^1$	\bigwedge <sup>(p)</sup>	logical and operator
U+022C1	$\bigvee\limits_0^1$	$\bigvee\limits_0^1$	$\bigvee\limits_0^1$	$\bigvee\limits_0^1$	$\bigvee\limits_0^1$	$\bigvee\limits_0^1$	$\bigvee\limits_0^1$	\bigvee <sup>(p)</sup>	logical or operator
U+022C2	$\bigcap\limits_0^1$	$\bigcap\limits_0^1$	$\bigcap\limits_0^1$	$\bigcap\limits_0^1$	$\bigcap\limits_0^1$	$\bigcap\limits_0^1$	$\bigcap\limits_0^1$	\bigcap <sup>(p)</sup>	intersection operator
U+022C3	$\bigcup\limits_0^1$	$\bigcup\limits_0^1$	$\bigcup\limits_0^1$	$\bigcup\limits_0^1$	$\bigcup\limits_0^1$	$\bigcup\limits_0^1$	$\bigcup\limits_0^1$	\bigcup <sup>(p)</sup>	union operator
U+027D5	$\boxtimes\limits_0^1$				$\boxtimes\limits_0^1$	$\boxtimes\limits_0^1$	$\boxtimes\limits_0^1$	\leftouterjoin	left outer join
U+027D6	$\boxtimes\limits_0^1$				$\boxtimes\limits_0^1$	$\boxtimes\limits_0^1$	$\boxtimes\limits_0^1$	\rightouterjoin	right outer join

USV	C	M	Lu	K	Le	N	F	Macro	Description
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
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

USV	C	M	Lu	K	Le	N	F	Macro	Description
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>\upoint</code>	integral with overbar
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+1EEFO								<code>\arabicmaj</code>	arabic mathematical operator meem with hah with tatweel




































































































USV	C	M	Lu	K	Le	N	F	Macro	Description
U+1EEF1								<code>\arabic Chad</code>	arabic mathematical operator hah with dal

## 12 Binary relations, `\mathbin`

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+0002B								<code>\mathplus</code>	plus sign b:
U+000B1								<code>\pm<sup>(p)</sup></code>	plus-or-minus sign
U+000B7								<code>\cdotp<sup>(p)</sup></code>	/centerdot b: middle dot
U+000D7								<code>\times<sup>(p)</sup></code>	multiply sign
U+000F7								<code>\div<sup>(p)</sup></code>	divide sign
U+02020								<code>\dagger<sup>(p)</sup></code>	dagger relation
U+02021								<code>\ddagger<sup>(p)</sup></code>	double dagger relation
U+02022								<code>\smbkcircle</code>	/bullet b: round bullet, filled
U+02040								<code>\tieconcat</code>	character tie, z notation se- quence concatenation
U+02044								<code>\fracslash</code>	fraction slash
U+0214B								<code>\upand</code>	turned ampersand
U+02212								<code>\minus</code>	minus sign
U+02213								<code>\mp<sup>(p)</sup></code>	minus-or-plus sign
U+02214								<code>\dotplus<sup>(a)</sup></code>	plus sign, dot above
U+02215								<code>\divslash</code>	division slash
U+02216								<code>\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>\vysmbkcircle</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

usv	C	M	Lu	K	Le	N	F	Macro	Description
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)
U+022BD	⌋	⌌	⌍	⌎	⌏	⌐		<code>\barvee</code>	bar, vee (large vee)
U+022C4	⬠	⬡	⬢	⬣	⬤	⬥		<code>\smwhtdiamond</code>	white diamond
U+022C5	⋅	⋆	⋇	⋈	⋉	⋊	⋋	<code>\cdot<sup>(p)</sup></code>	small middle dot
U+022C6	★	★	★	★	★	★		<code>\star<sup>(p)</sup></code>	small star, filled, low
U+022C7	⋈	⋉	⋊	⋋	⋌	⋍		<code>\divideontimes<sup>(a)</sup></code>	division on times
U+022C9	⋈	⋉	⋊	⋋	⋌	⋍		<code>\ltimes<sup>(a)</sup></code>	times sign, left closed
U+022CA	⋈	⋉	⋊	⋋	⋌	⋍		<code>\rtimes<sup>(a)</sup></code>	times sign, right closed
U+022CB	⋈	⋉	⋊	⋋	⋌	⋍		<code>\leftthreetimes<sup>(a)</sup></code>	left semidirect product
U+022CC	⋈	⋉	⋊	⋋	⋌	⋍		<code>\rightthreetimes<sup>(a)</sup></code>	right semidirect product
U+022CE	⋈	⋉	⋊	⋋	⋌	⋍	⋎	<code>\curlyvee<sup>(a)</sup></code>	curly logical or
U+022CF	⋈	⋉	⋊	⋋	⋌	⋍	⋎	<code>\curlywedge<sup>(a)</sup></code>	curly logical and
U+022D2	⍇	⍈	⍉	⍊	⍋	⍌		<code>\Cap<sup>(a)</sup></code>	/cap /doublecap b: double intersection
U+022D3	⍇	⍈	⍉	⍊	⍋	⍌		<code>\Cup<sup>(a)</sup></code>	/cup /doublecup b: double union

usv	C	M	Lu	K	Le	N	F	Macro	Description
U+02305								<code>\varbarwedge</code>	/barwedge b: logical and, bar above [projective (bar over small wedge)]
U+02306								<code>\vardoublebarwedge</code>	/doublebarwedge b: logical and, double bar above [perspective (double bar over small wedge)]
U+0233D								<code>\obar</code>	circle with vertical bar
U+025B3								<code>\bigtriangleup<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
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>\triangleserifs</code>	triangle with serifs at bottom
U+029D6								<code>\hourglass</code>	white hourglass

USV	C	M	Lu	K	Le	N	F	Macro	Description
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
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



usv	C	M	Lu	K	Le	N	F	Macro	Description
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>\triangletimes</code>	multiplication sign in triangle
U+02A3C	⌋				⌋	⌋		<code>\intprod</code>	interior product
U+02A3D	⌋				⌋	⌋		<code>\intprodr</code>	righthand interior product
U+02A3E	⋈				⋈	⋈		<code>\fcmp</code>	z notation relational composition
U+02A3F	⧿	⧿	⧿	⧿	⧿	⧿		<code>\amalg<sup>(p)</sup></code>	amalgamation or coproduct
U+02A40	⋈				⋈	⋈		<code>\capdot</code>	intersection with dot
U+02A41	⋈				⋈	⋈		<code>\uminus</code>	union with minus sign
U+02A42	⋈				⋈	⋈		<code>\barcup</code>	union with overbar
U+02A43	⋈				⋈	⋈		<code>\barcap</code>	intersection with overbar
U+02A44	⋈				⋈	⋈		<code>\capwedge</code>	intersection with logical and
U+02A45	⋈				⋈	⋈		<code>\cupvee</code>	union with logical or
U+02A46	⋈				⋈	⋈		<code>\cupovercap</code>	union above intersection
U+02A47	⋈				⋈	⋈		<code>\capovercup</code>	intersection above union
U+02A48	⋈				⋈	⋈		<code>\cupbarcap</code>	union above bar above intersection
U+02A49	⋈				⋈	⋈		<code>\capbarcup</code>	intersection above bar above union
U+02A4A	⋈				⋈	⋈		<code>\twocups</code>	union beside and joined with union
U+02A4B	⋈				⋈	⋈		<code>\twocaps</code>	intersection beside and joined with intersection
U+02A4C	⋈				⋈	⋈		<code>\closedvarcup</code>	closed union with serifs
U+02A4D	⋈				⋈	⋈		<code>\closedvarcap</code>	closed intersection with serifs
U+02A4E	⋈				⋈	⋈		<code>\Sqcap</code>	double square intersection
U+02A4F	⋈				⋈	⋈		<code>\Sqcup</code>	double square union
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

usv	C	M	Lu	K	Le	N	F	Macro	Description
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>\dsup</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
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	C	M	Lu	K	Le	N	F	Macro	Description
U+00023	#	#	#	#	#	#	#	\mathoctothorpe	number sign
U+00024	\$	\$	\$	\$	\$	\$	\$	\mathdollar	dollar sign
U+00025	%	%	%	%	%	%	%	\mathpercent	percent sign
U+00026	&	&	&	&	&	&	&	\mathampersand	ampersand
U+0002E	.	.	.	.	.	.	.	\mathperiod	full stop, period
U+0002F	/	/	/	/	/	/	/	\mathslash	solidus
U+0003F	?	?	?	?	?	?	?	\mathquestion	question mark
U+00040	@	@	@	@	@	@	@	\mathatsign	commercial at
U+0005C	\	\	\	\	\	\	\	\backslash <sup>(p)</sup>	reverse solidus
U+000A3	£	£	£	£	£	£	£	\mathsterling	pound sign
U+000A5	¥	¥	¥	¥	¥	¥	¥	\mathyen	yen sign
U+000A7	§	§	§	§	§	§	§	\mathsection	section symbol
U+000AC	¬	¬	¬	¬	¬	¬	¬	\neg <sup>(p)</sup>	/neg /lnot not sign
U+000B6	¶	¶	¶	¶	¶	¶	¶	\mathparagraph	paragraph symbol
U+001B5	ℤ		ℤ	ℤ	ℤ	ℤ		\Zbar	impedance (latin capital letter z with stroke)
U+003F6					ϵ	ϵ	ϵ	\upbackepsilon	greek reversed lunate epsilon symbol
U+02015	—	—	—		—	—	—	\horizbar	horizontal bar
U+02017	=	=	=		=	=		\twolowline	double low line (spacing)
U+02025					..	..		\enleadertwodots	double baseline dot (en leader)
U+02026	...	...	...	...	...	...	...	\unicodeellipsis	ellipsis (horizontal)
U+02032	′	′	′	′	′	′	′	\prime <sup>(p)</sup>	prime or minute, not superscripted
U+02033	″	″	″	″	″	″	″	\dprime	double prime or second, not superscripted
U+02034	‴	‴	‴	‴	‴	‴	‴	\trprime	triple prime (not superscripted)
U+02035		ℵ	ℵ	ℵ	ℵ	ℵ	ℵ	\backprime <sup>(a)</sup>	reverse prime, not superscripted
U+02036		ℵ	ℵ	ℵ	ℵ	ℵ	ℵ	\backdprime	double reverse prime, not superscripted
U+02037		ℵ	ℵ	ℵ	ℵ	ℵ	ℵ	\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)

usv	C	M	Lu	K	Le	N	F	Macro	Description
U+02047			??		??	??		\Question	double question mark
U+02057	////	////	////	////	////	////	////	\qprime	quadruple prime, not super-scripted
U+020AC	€	€	€	€	€	€	€	\euro	euro sign
U+020DD	◯	◯	◯	◯	◯	◯		\enclosecircle	combining enclosing circle
U+020DE	◻	◻	◻	◻	◻	◻		\enclosesquare	combining enclosing square
U+020DF	◊	◊	◊	◊	◊	◊		\enclosediamond	combining enclosing diamond
U+020E4		△	△	△	△	△		\enclosetriangle	combining enclosing upward pointing triangle
U+02107	ℰ	ℰ	ℰ	ℰ	ℰ	ℰ		\Eulerconst	euler constant
U+0210E	ℏ	ℏ	ℏ	ℏ	ℏ	ℏ	ℏ	\Planckconst	planck constant
U+02127	℧	℧	℧	℧	℧	℧	℧	\mho	conductance
U+02132	ƒ		ƒ	ƒ	ƒ	ƒ		\Finv <sup>(a)</sup>	turned capital f
U+0213C		℥				℥		\Bbbpi	double-struck small pi
U+02141	Ɔ		Ɔ	Ɔ	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	𝔻	𝔻				𝔻		\mitBbbD	double-struck italic capital d
U+02146	𝔡	𝔡				𝔡		\mitBbbd	double-struck italic small d
U+02147	𝔢	𝔢				𝔢		\mitBbbe	double-struck italic small e
U+02148	𝔦	𝔦				𝔦		\mitBbbi	double-struck italic small i
U+02149	𝔧	𝔧				𝔧		\mitBbbj	double-struck italic small j
U+0214A	Ⅎ				Ⅎ	Ⅎ		\PropertyLine	property line
U+021A8	↕				↕	↕	↕	\updownarrowbar	up down arrow with base (perpendicular)
U+021B4	↴	↴	↴	↴	↴	↴	↴	\linefeed	rightwards arrow with corner downwards
U+021B5	↵	↵	↵	↵	↵	↵	↵	\carriagereturn	downwards arrow with corner leftward = carriage return
U+021B8	↶				↶	↶	↶	\barovernorthwestarrow	north west arrow to long bar
U+021B9	↷				↷	↷	↷	\barleftarrowrightarrowbar	leftwards arrow to bar over rightwards arrow to bar
U+021BA	↻	↻	↻	↻	↻	↻	↻	\acwopencirclearrow	anticlockwise open circle arrow
U+021BB	↻	↻	↻	↻	↻	↻	↻	\cwopencirclearrow	clockwise open circle arrow
U+021DE	⇩				⇩	⇩	⇩	\nHuparrow	upwards arrow with double stroke
U+021DF	⇩				⇩	⇩	⇩	\nHdownarrow	downwards arrow with double stroke



























































































































usv	C	M	Lu	K	Le	N	F	Macro	Description
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	Δ	Δ	Δ	Δ	Δ	Δ	Δ	<code>\increment</code>	laplacian (delta; nabla^2)
U+0220E	■	■	■	■	■	■	■	<code>\QED</code>	end of proof
U+0221A	√	√	√	√	√	√	√	<code>\surd</code> <sup>(p)</sup>	radical
U+0221E	∞	∞	∞	∞	∞	∞	∞	<code>\infty</code> <sup>(p)</sup>	infinity
U+0221F	┐	┐	┐	┐	┐	┐	┐	<code>\rightangle</code>	right (90 degree) angle
U+02220	∠	∠	∠	∠	∠	∠	∠	<code>\angle</code> <sup>(p)</sup>	angle
U+02221	∢	∢	∢	∢	∢	∢	∢	<code>\measuredangle</code> <sup>(a)</sup>	angle-measured
U+02222	∢	∢	∢	∢	∢	∢	∢	<code>\sphericalangle</code> <sup>(a)</sup>	angle-spherical
U+02234	∴	∴	∴	∴	∴	∴	∴	<code>\therefore</code> <sup>(a)</sup>	therefore
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
U+022A5	⤵	⤵	⤵	⤵	⤵	⤵		<code>\bot</code> <sup>(p)</sup>	bottom
U+022B9	⋈	⋈	⋈		⋈	⋈		<code>\hermitmatrix</code>	hermitian conjugate matrix
U+022BE	⊳	⊳	⊳		⊳	⊳		<code>\measuredrightangle</code>	right angle-measured [with arc]
U+022BF	⊲	⊲	⊲		⊲	⊲		<code>\varlrtriangle</code>	right triangle
U+022EF	⋯	⋯	⋯	⋯	⋯	⋯	⋯	<code>\unicodeddots</code>	three dots, centered
U+02300	⌀	⌀	⌀		⌀	⌀		<code>\diameter</code>	diameter sign
U+02302	🏠				🏠	🏠	🏠	<code>\house</code>	house
U+02310	↯	↯	↯	↯	↯	↯	↯	<code>\invnot</code>	reverse not






























































































usv	C	M	Lu	K	Le	N	F	Macro	Description
U+02311	◻				◻	◻		\sqlozenge	square lozenge
U+02312	⤿				⤿	⤿		\profline	profile of a line
U+02313	⤿				⤿	⤿		\profsurf	profile of a surface
U+02317	⌘				⌘	⌘		\viewdata	viewdata square
U+02319	⌞	⌞	⌞	⌞	⌞	⌞		\turnednot	turned not sign
U+02320	∫	∫	∫	∫	∫	∫		\inttop	top half integral
U+02321	∫	∫	∫	∫	∫	∫		\intbottom	bottom half integral
U+0232C						⬡		\varhexagonlrbonds	six carbon ring, corner down, double bonds lower right etc
U+02332	▷					▷		\conictaper	conical taper
U+02336	⌈					⌈		\topbot	top and bottom
U+02340	⌘					⌘		\APLnotbackslash	apl functional symbol backslash bar
U+02353	⌘					⌘		\APLboxupcaret	boxed up caret
U+02370	⌘					⌘		\APLboxquestion	boxed question mark
U+0237C	⌞					⌞		\rangledownzigzagarrow	right angle with downwards zigzag arrow
U+02394	⬡				⬡	⬡		\hexagon	horizontal benzene ring [hexagon flat open]
U+0239B	⌈	⌈	⌈	⌈	⌈	⌈	⌈	\lparenuend	left parenthesis upper hook
U+0239C	⌈	⌈	⌈	⌈	⌈	⌈	⌈	\lparenextender	left parenthesis extension
U+0239D	⌈	⌈	⌈	⌈	⌈	⌈	⌈	\lparenlend	left parenthesis lower hook
U+0239E	⌈	⌈	⌈	⌈	⌈	⌈	⌈	\rparenuend	right parenthesis upper hook
U+0239F	⌈	⌈	⌈	⌈	⌈	⌈	⌈	\rparenextender	right parenthesis extension
U+023A0	⌈	⌈	⌈	⌈	⌈	⌈	⌈	\rparenlend	right parenthesis lower hook
U+023A1	⌈	⌈	⌈	⌈	⌈	⌈	⌈	\lbrackuend	left square bracket upper corner
U+023A2	⌈	⌈	⌈	⌈	⌈	⌈	⌈	\lbrackextender	left square bracket extension
U+023A3	⌈	⌈	⌈	⌈	⌈	⌈	⌈	\lbracklend	left square bracket lower corner

USV	C	M	Lu	K	Le	N	F	Macro	Description
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
U+023B9								<code>\rvboxline</code>	right vertical box line
U+023CE								<code>\varcarriagereturn</code>	return symbol
U+023E0								<code>\obrbrak</code>	top tortoise shell bracket (mathematical use)
U+023E1								<code>\ubrbrak</code>	bottom tortoise shell bracket (mathematical use)
U+023E2								<code>\trapezium</code>	white trapezium

usv	C	M	Lu	K	Le	N	F	Macro	Description
U+023E3								<code>\benzenr</code>	benzene ring with circle
U+023E4								<code>\strns</code>	straightness
U+023E5								<code>\fltns</code>	flatness
U+023E6								<code>\accurrent</code>	ac current
U+023E7								<code>\elinters</code>	electrical intersection
U+02422								<code>\blanksymbol</code>	blank symbol
U+02423								<code>\mathvisiblespace</code>	open box
U+02506								<code>\bdtriplevdash</code>	doubly broken vert
U+02580								<code>\blockuphalf</code>	upper half block
U+02584								<code>\blocklowhalf</code>	lower half block
U+02588								<code>\blockfull</code>	full block
U+0258C								<code>\blocklefthalf</code>	left half block
U+02590								<code>\blockrighthalf</code>	right half block
U+02591								<code>\blockqtrshaded</code>	25% shaded block
U+02592								<code>\blockhalfshaded</code>	50% shaded block
U+02593								<code>\blockthreeqtrshaded</code>	75% shaded block
U+025A0								<code>\mdlgblksquare</code>	square, filled
U+025A1								<code>\mdlgwhtsquare</code>	square, open
U+025A2								<code>\squoval</code>	white square with rounded corners
U+025A3								<code>\blackinwhitesquare</code>	white square containing black small square
U+025A4								<code>\squarehfill</code>	square, horizontal rule filled
U+025A5								<code>\squarevfill</code>	square, vertical rule filled
U+025A6								<code>\squarehvfill</code>	square with orthogonal crosshatch fill
U+025A7								<code>\squarenwsefill</code>	square, nw-to-se rule filled
U+025A8								<code>\squareneswfill</code>	square, ne-to-sw rule filled
U+025A9								<code>\squarecrossfill</code>	square with diagonal crosshatch fill
U+025AA								<code>\smlbksquare</code>	/blacksquare - sq bullet, filled
U+025AB								<code>\smwhtsquare</code>	white small square
U+025AC								<code>\hrectangleblack</code>	black rectangle
U+025AD								<code>\hrectangle</code>	horizontal rectangle, open
U+025AE								<code>\vrectangleblack</code>	black vertical rectangle
U+025AF								<code>\vrectangle</code>	rectangle, white (vertical)















































































usv	C	M	Lu	K	Le	N	F	Macro	Description
U+025B0								<code>\parallelogramblack</code>	black parallelogram
U+025B1								<code>\parallelogram</code>	parallelogram, open
U+025B2								<code>\bigblacktriangleup</code>	black up-pointing triangle
U+025B4								<code>\blacktriangle<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>\mdlgblkdiamond</code>	black diamond
U+025C7								<code>\mdlgwhtdiamond</code>	white diamond; diamond, open
U+025C8								<code>\blackinwhitediamond</code>	white diamond containing black small diamond
U+025C9								<code>\fisheye</code>	fisheye
U+025CA								<code>\mdlgwhtlozenge</code>	lozenge or total mark
U+025CC								<code>\dottedcircle</code>	dotted circle
U+025CD								<code>\circlevertfill</code>	circle with vertical fill
U+025CE								<code>\bullseye</code>	bullseye
U+025CF								<code>\mdlgblkcircle</code>	circle, filled
U+025D0								<code>\circlelefthalfblack</code>	circle, filled left half [harvey ball]
U+025D1								<code>\cirlerrighthalfblack</code>	circle, filled right half
U+025D2								<code>\circlebottomhalfblack</code>	circle, filled bottom half
U+025D3								<code>\circletophalfblack</code>	circle, filled top half
U+025D4								<code>\circleurquadblack</code>	circle with upper right quadrant black
U+025D5								<code>\blackcircleulquadwhite</code>	circle with all but upper left quadrant black

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+025D6								<code>\blacklefthalfcircle</code>	left half black circle
U+025D7								<code>\blackrighthalfcircle</code>	right half black circle
U+025D8								<code>\inversebullet</code>	inverse bullet
U+025D9								<code>\inversewhitecircle</code>	inverse white circle
U+025DA								<code>\invwhiteupperhalfcircle</code>	upper half inverse white circle
U+025DB								<code>\invwhitelowerhalfcircle</code>	lower half inverse white circle
U+025DC								<code>\ularc</code>	upper left quadrant circular arc
U+025DD								<code>\urarc</code>	upper right quadrant circular arc
U+025DE								<code>\lrarc</code>	lower right quadrant circular arc
U+025DF								<code>\llarc</code>	lower left quadrant circular arc
U+025E0								<code>\topsemicircle</code>	upper half circle
U+025E1								<code>\botsemicircle</code>	lower half circle
U+025E2								<code>\lrblacktriangle</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
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

usv	C	M	Lu	K	Le	N	F	Macro	Description
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>\circlelurquad</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>\mdsmblksquare</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)
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

usv	C	M	Lu	K	Le	N	F	Macro	Description
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>\threedangle</code>	three dimensional angle
U+027C1								<code>\whiteinwhitetrangle</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
U+027D0								<code>\diamondcdot</code>	white diamond with centred dot
U+0292B								<code>\rdiagovfdiag</code>	rising diagonal crossing falling diagonal

usv	C	M	Lu	K	Le	N	F	Macro	Description
U+0292C	✕				✕	✕		\fdiagovrdiag	falling diagonal crossing rising diagonal
U+0292D	↘				↘	↘		\seovnearrow	south east arrow crossing north east arrow
U+0292E	↗				↗	↗		\neovsearrow	north east arrow crossing south east arrow
U+0292F	✕				↗	↘		\fdiagovnearrow	falling diagonal crossing north east arrow
U+02930	↗				↘	↘		\rdiagovsearrow	rising diagonal crossing south east arrow
U+02931	↗				↗	↗		\neovnwarrow	north east arrow crossing north west arrow
U+02932	↗				↗	↗		\nwovnearrow	north west arrow crossing north east arrow
U+02934	↪				↪	↗		\uprightcurvearrow	arrow pointing rightwards then curving upwards
U+02935	↩				↩	↘		\downrightcurvedarrow	arrow pointing rightwards then curving downwards
U+02981	•		•	•	•	•	•	\mdsmbkcircle	z notation spot
U+02999	⋮				⋮	⋮		\fourvdots	dotted fence
U+0299A	⋮				⋮	⋮		\vzigzag	vertical zigzag line
U+0299B	⦶				⦶	⦶		\measuredangleleft	measured angle opening left
U+0299C	⦶				⦶	⦶		\rightanglesqr	right angle variant with square
U+0299D	⦶				⦶	⦶		\rightanglemdot	measured right angle with dot
U+0299E	⦶				⦶	⦶		\angles	angle with s inside
U+0299F	⦶				⦶	⦶	⦶	\angdnr	acute angle
U+029A0	⦶				⦶	⦶	⦶	\gtlpar	spherical angle opening left
U+029A1	⦶				⦶	⦶	⦶	\sphericalangleup	spherical angle opening up
U+029A2	⦶				⦶	⦶	⦶	\turnangle	turned angle
U+029A3	⦶				⦶	⦶	⦶	\revangle	reversed angle
U+029A4	⦶				⦶	⦶		\angleubar	angle with underbar
U+029A5	⦶				⦶	⦶		\revangleubar	reversed angle with underbar
U+029A6	⦶				⦶	⦶	⦶	\wideangledown	oblique angle opening up
U+029A7	⦶				⦶	⦶	⦶	\wideangleup	oblique angle opening down
U+029A8	⦶				⦶	⦶		\measanglerutone	measured angle with open arm ending in arrow pointing up and right
U+029A9	⦶				⦶	⦶		\measanglelutonw	measured angle with open arm ending in arrow pointing up and left
U+029AA	⦶				⦶	⦶		\measanglerdtose	measured angle with open arm ending in arrow pointing down and right

USV	C	M	Lu	K	Le	N	F	Macro	Description
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>\reverifyset</code>	reversed empty set
U+029B1								<code>\emptysettoabar</code>	empty set with overbar
U+029B2								<code>\emptysettocirc</code>	empty set with small circle above
U+029B3								<code>\emptysettoarr</code>	empty set with right arrow above
U+029B4								<code>\emptysettoarrl</code>	empty set with left arrow above
U+029BA								<code>\obot</code>	circle divided by horizontal bar and top half divided by vertical bar
U+029BB								<code>\olcross</code>	circle with superimposed x
U+029BC								<code>\odotslashdot</code>	circled anticlockwise-rotated division sign
U+029BD								<code>\uparrowoncircle</code>	up arrow through circle
U+029BE								<code>\circledwhitebullet</code>	circled white bullet
U+029BF								<code>\circledbullet</code>	circled bullet
U+029C2								<code>\cirscir</code>	circle with small circle to the right
U+029C3								<code>\cirE</code>	circle with two horizontal strokes to the right
U+029C9								<code>\boxonbox</code>	two joined squares
U+029CA								<code>\triangleodot</code>	triangle with dot above
U+029CB								<code>\triangleubar</code>	triangle with underbar
U+029CC								<code>\triangles</code>	s in triangle
U+029DC								<code>\iifin</code>	incomplete infinity
U+029DD								<code>\tieinfty</code>	tie over infinity
U+029DE								<code>\nvinfty</code>	infinity negated with vertical bar
U+029EO								<code>\laplac</code>	square with contoured outline

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+029E7	⚡				⚡	⚡		\thermod	thermodynamic
U+029E8	▴				▴	▴		\downtriangleleftblack	down-pointing triangle with left half black
U+029E9	▴				▴	▴		\downtrianglerightblack	down-pointing triangle with right half black
U+029EA	⬇				⬇	⬇		\blackdiamonddownarrow	black diamond with down arrow
U+029EC	⬇				⬇	⬇		\circledownarrow	white circle with down arrow
U+029ED	⬇				⬇	⬇		\blackcircledownarrow	black circle with down arrow
U+029EE	⬆				⬆	⬆		\errbarsquare	error-barred white square
U+029EF	⬆				⬆	⬆		\errbarblacksquare	error-barred black square
U+029F0	⬆				⬆	⬆		\errbardiamond	error-barred white diamond
U+029F1	⬆				⬆	⬆		\errbarblackdiamond	error-barred black diamond
U+029F2	⬆				⬆	⬆		\errbarcircle	error-barred white circle
U+029F3	⬆				⬆	⬆		\errbarblackcircle	error-barred black circle
U+02AE1	⊥				⊥	⊥		\perps	perpendicular with s
U+02AF1	⌞				⌞	⌞		\topcir	down tack with circle below
U+02B12					◼	◼		\squaretopblack	square with top half black
U+02B13					◼	◼		\squarebotblack	square with bottom half black
U+02B14					◼	◼		\squareurblack	square with upper right diagonal half black
U+02B15					◼	◼		\squarellblack	square with lower left diagonal half black
U+02B16					◈	◈		\diamondleftblack	diamond with left half black
U+02B17					◈	◈		\diamondrightblack	diamond with right half black
U+02B18					◈	◈		\diamondtopblack	diamond with top half black
U+02B19					◈	◈		\diamondbotblack	diamond with bottom half black
U+02B1A	◻	◻			◻	◻		\dottedsquare	dotted square
U+02B1B			■	■	■	■		\lgblksquare	black large square
U+02B1C			□	□	□	□		\lgwhtsquare	white large square
U+02B1D			▪	▪	▪	▪		\vysmblksquare	black very small square
U+02B1E			◼	◼	◼	◼		\vysmwhtsquare	white very small square
U+02B1F					⬠	⬠		\pentagonblack	black pentagon
U+02B20					⬠	⬠		\pentagon	white pentagon
U+02B21					⬡	⬡		\varhexagon	white hexagon
U+02B22					⬡	⬡		\varhexagonblack	black hexagon
U+02B23					⬢	⬢		\hexagonblack	horizontal black hexagon

usv	C	M	Lu	K	Le	N	F	Macro	Description
U+02B24			●	●	●	●	●	\lgblkcircle	black large circle
U+02B25			◆	◆	◆	◆		\mdblkdiamond	black medium diamond
U+02B26			◇	◇	◇	◇		\mdwhtdiamond	white medium diamond
U+02B27			◆	◆	◆	◆		\mdblklozenge	black medium lozenge
U+02B28			◇	◇	◇	◇		\mdwhtlozenge	white medium lozenge
U+02B29			◆	◆	◆	◆		\smbldiamond	black small diamond
U+02B2A			◆	◆	◆	◆		\smblklozenge	black small lozenge
U+02B2B			◇	◇	◇	◇		\smwhtlozenge	white small lozenge
U+02B2C					●	●		\blkhorzoval	black horizontal ellipse
U+02B2D					○	○		\whthorzoval	white horizontal ellipse
U+02B2E					●	●		\blkvertoval	black vertical ellipse
U+02B2F					○	○		\whtvertoval	white vertical ellipse
U+02B50					☆	☆		\medwhitestar	white medium star
U+02B51					★	★		\medblackstar	black medium star
U+02B52					☆	☆		\smwhitestar	white small star
U+02B53					⬠	⬠		\rightpentagonblack	black right-pointing pentagon
U+02B54					⬡	⬡		\rightpentagon	white right-pointing pentagon
U+03012						〒		\postalmark	postal mark
U+03030						ㄤ		\hzigzag	zigzag
U+1D7CE	0	0	0	0	0	0	0	\mbfzero	mathematical bold digit 0
U+1D7CF	1	1	1	1	1	1	1	\mbfone	mathematical bold digit 1
U+1D7D0	2	2	2	2	2	2	2	\mbftwo	mathematical bold digit 2
U+1D7D1	3	3	3	3	3	3	3	\mbfthree	mathematical bold digit 3
U+1D7D2	4	4	4	4	4	4	4	\mbffour	mathematical bold digit 4
U+1D7D3	5	5	5	5	5	5	5	\mbffive	mathematical bold digit 5
U+1D7D4	6	6	6	6	6	6	6	\mbfsix	mathematical bold digit 6
U+1D7D5	7	7	7	7	7	7	7	\mbfseven	mathematical bold digit 7
U+1D7D6	8	8	8	8	8	8	8	\mbfeight	mathematical bold digit 8
U+1D7D7	9	9	9	9	9	9	9	\mbfnine	mathematical bold digit 9
U+1D7D8	0	0			0	0		\Bbbzero	mathematical double-struck digit 0
U+1D7D9	1	1			1	1		\Bbbone	mathematical double-struck digit 1
U+1D7DA	2	2			2	2		\Bbbtwo	mathematical double-struck digit 2
U+1D7DB	3	3			3	3		\Bbbthree	mathematical double-struck digit 3



USV	C	M	Lu	K	Le	N	F	Macro	Description
U+1D7DC	4	4			4	4		\Bbbfour	mathematical double-struck digit 4
U+1D7DD	5	5			5	5		\Bbbfive	mathematical double-struck digit 5
U+1D7DE	6	6			6	6		\Bbbsix	mathematical double-struck digit 6
U+1D7DF	7	7			7	7		\Bbbseven	mathematical double-struck digit 7
U+1D7E0	8	8			8	8		\Bbbeight	mathematical double-struck digit 8
U+1D7E1	9	9			9	9		\Bbbnine	mathematical double-struck digit 9
U+1D7E2	0	0	0	0	0	0		\msanszero	mathematical sans-serif digit 0
U+1D7E3	1	1	1	1	1	1		\msansone	mathematical sans-serif digit 1
U+1D7E4	2	2	2	2	2	2		\msanstwo	mathematical sans-serif digit 2
U+1D7E5	3	3	3	3	3	3		\msansthree	mathematical sans-serif digit 3
U+1D7E6	4	4	4	4	4	4		\msansfour	mathematical sans-serif digit 4
U+1D7E7	5	5	5	5	5	5		\msansfive	mathematical sans-serif digit 5
U+1D7E8	6	6	6	6	6	6		\msanssix	mathematical sans-serif digit 6
U+1D7E9	7	7	7	7	7	7		\msansseven	mathematical sans-serif digit 7
U+1D7EA	8	8	8	8	8	8		\msanseight	mathematical sans-serif digit 8
U+1D7EB	9	9	9	9	9	9		\msansnine	mathematical sans-serif digit 9
U+1D7EC	0	0	0	0	0	0		\mbfsanszero	mathematical sans-serif bold digit 0
U+1D7ED	1	1	1	1	1	1		\mbfsansone	mathematical sans-serif bold digit 1
U+1D7EE	2	2	2	2	2	2		\mbfsanstwo	mathematical sans-serif bold digit 2
U+1D7EF	3	3	3	3	3	3		\mbfsansthree	mathematical sans-serif bold digit 3
U+1D7F0	4	4	4	4	4	4		\mbfsansfour	mathematical sans-serif bold digit 4
U+1D7F1	5	5	5	5	5	5		\mbfsansfive	mathematical sans-serif bold digit 5
U+1D7F2	6	6	6	6	6	6		\mbfsanssix	mathematical sans-serif bold digit 6
U+1D7F3	7	7	7	7	7	7		\mbfsansseven	mathematical sans-serif bold digit 7
U+1D7F4	8	8	8	8	8	8		\mbfsanseight	mathematical sans-serif bold digit 8
U+1D7F5	9	9	9	9	9	9		\mbfsansnine	mathematical sans-serif bold digit 9
U+1D7F6	0	0	0	0	0	0		\mttzero	mathematical monospace digit 0
U+1D7F7	1	1	1	1	1	1		\mttone	mathematical monospace digit 1

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+1D7F8	2	2	2	2	2	2		\mttwo	mathematical monospace digit 2
U+1D7F9	3	3	3	3	3	3		\mtthree	mathematical monospace digit 3
U+1D7FA	4	4	4	4	4	4		\mtfour	mathematical monospace digit 4
U+1D7FB	5	5	5	5	5	5		\mtfive	mathematical monospace digit 5
U+1D7FC	6	6	6	6	6	6		\mtsix	mathematical monospace digit 6
U+1D7FD	7	7	7	7	7	7		\mtseven	mathematical monospace digit 7
U+1D7FE	8	8	8	8	8	8		\mtteight	mathematical monospace digit 8
U+1D7FF	9	9	9	9	9	9		\mttnine	mathematical monospace digit 9

## 14 Relation symbols, \mathrel

usv	C	M	Lu	K	Le	N	F	Macro	Description
U+0003C	<	<	<	<	<	<	<	\less	less-than sign r:
U+0003D	=	=	=	=	=	=	=	\equal	equals sign r:
U+0003E	>	>	>	>	>	>	>	\greater	greater-than sign r:
U+02050					⊂	⊃		\closure	close up
U+02190	←	←	←	←	←	←	←	\leftarrow <sup>(p)</sup>	/leftarrow /gets a: leftward arrow
U+02191	↑	↑	↑	↑	↑	↑	↑	\uparrow <sup>(p)</sup>	upward arrow
U+02192	→	→	→	→	→	→	→	\rightarrow <sup>(p)</sup>	/rightarrow /to a: rightward arrow
U+02193	↓	↓	↓	↓	↓	↓	↓	\downarrow <sup>(p)</sup>	downward arrow
U+02194	↔	↔	↔	↔	↔	↔	↔	\leftrightarrow <sup>(p)</sup>	left and right arrow
U+02195	↕	↕	↕	↕	↕	↕	↕	\updownarrow <sup>(p)</sup>	up and down arrow
U+02196	↖	↖	↖	↖	↖	↖	↖	\nwarrow <sup>(p)</sup>	nw pointing arrow
U+02197	↗	↗	↗	↗	↗	↗	↗	\nearrow <sup>(p)</sup>	ne pointing arrow
U+02198	↘	↘	↘	↘	↘	↘	↘	\searrow <sup>(p)</sup>	se pointing arrow
U+02199	↙	↙	↙	↙	↙	↙	↙	\swarrow <sup>(p)</sup>	sw pointing arrow
U+0219A	↮	↮	↮	↮	↮	↮	↮	\nleftarrow <sup>(a)</sup>	not left arrow
U+0219B	↛	↛	↛	↛	↛	↛	↛	\nrightarrow <sup>(a)</sup>	not right arrow
U+0219C	↔̃		↔̃	↔̃	↔̃	↔̃	↔̃	\leftwvearrow	left arrow-wavy
U+0219D	↔̃		↔̃	↔̃	↔̃	↔̃	↔̃	\rightwvearrow	right arrow-wavy
U+0219E	↔↔	↔↔	↔↔	↔↔	↔↔	↔↔	↔↔	\twoheadleftarrow <sup>(a)</sup>	left two-headed arrow
U+0219F	↕↕	↕↕	↕↕	↕↕	↕↕	↕↕	↕↕	\twoheaduparrow	up two-headed arrow
U+021A0	→→	→→	→→	→→	→→	→→	→→	\twoheadrightarrow <sup>(a)</sup>	right two-headed arrow
U+021A1	↕↕	↕↕	↕↕	↕↕	↕↕	↕↕	↕↕	\twoheaddownarrow	down two-headed arrow
U+021A2	↮	↮	↮	↮	↮	↮	↮	\leftarrowtail <sup>(a)</sup>	left arrow-tailed
U+021A3	↛	↛	↛	↛	↛	↛	↛	\rightarrowtail <sup>(a)</sup>	right arrow-tailed
U+021A4	↮	↮	↮	↮	↮	↮	↮	\mapsfrom	maps to, leftward
U+021A5	↕̸	↕̸	↕̸	↕̸	↕̸	↕̸	↕̸	\mapsup	maps to, upward
U+021A6	↛	↛	↛	↛	↛	↛	↛	\mapsto <sup>(p)</sup>	maps to, rightward
U+021A7	↓̸	↓̸	↓̸	↓̸	↓̸	↓̸	↓̸	\mapsdown	maps to, downward
U+021A9	↔̃	↔̃	↔̃	↔̃	↔̃	↔̃	↔̃	\hookleftarrow <sup>(p)</sup>	left arrow-hooked
U+021AA	↔̃	↔̃	↔̃	↔̃	↔̃	↔̃	↔̃	\hookrightarrow <sup>(p)</sup>	right arrow-hooked
U+021AB	↔̃	↔̃	↔̃	↔̃	↔̃	↔̃	↔̃	\looparrowleft <sup>(a)</sup>	left arrow-looped
U+021AC	↔̃	↔̃	↔̃	↔̃	↔̃	↔̃	↔̃	\looparrowright <sup>(a)</sup>	right arrow-looped

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+021AD								<code>\leftrightsquigarrow<sup>(a)</sup></code>	left and right arr-wavy
U+021AE								<code>\nletrightarrow<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
U+021C4								<code>\rightleftarrows<sup>(a)</sup></code>	right arrow over left arrow
U+021C5								<code>\updownarrows</code>	up arrow, down arrow
U+021C6								<code>\leftrightarrows<sup>(a)</sup></code>	left arrow over right arrow
U+021C7								<code>\leftleftarrows<sup>(a)</sup></code>	two left arrows
U+021C8								<code>\upuparrows<sup>(a)</sup></code>	two up arrows
U+021C9								<code>\rightrightarrows<sup>(a)</sup></code>	two right arrows
U+021CA								<code>\downdownarrows<sup>(a)</sup></code>	two down arrows
U+021CB								<code>\leftrightharpoons<sup>(a)</sup></code>	left harpoon over right
U+021CC								<code>\rightleftharpoons<sup>(l)</sup></code>	right harpoon over left
U+021CD								<code>\nLeftarrow<sup>(a)</sup></code>	not implied by
U+021CE								<code>\nLeftrightarrow<sup>(a)</sup></code>	not left and right double arrows
U+021CF								<code>\nRightarrow<sup>(a)</sup></code>	not implies
U+021D0								<code>\Leftarrow<sup>(p)</sup></code>	is implied by
U+021D1								<code>\Uparrow<sup>(p)</sup></code>	up double arrow
U+021D2								<code>\Rightarrow<sup>(p)</sup></code>	implies
U+021D3								<code>\Downarrow<sup>(p)</sup></code>	down double arrow
U+021D4								<code>\Leftrightarrow<sup>(p)</sup></code>	left and right double arrow

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+021D5	↕	↕	↕	↕	↕	↕	↕	<code>\Updownarrow<sup>(p)</sup></code>	up and down double arrow
U+021D6	↖	↖	↖	↖	↖	↖	↖	<code>\Nwarrow</code>	nw pointing double arrow
U+021D7	↗	↗	↗	↗	↗	↗	↗	<code>\Nearrow</code>	ne pointing double arrow
U+021D8	↘	↘	↘	↘	↘	↘	↘	<code>\Searrow</code>	se pointing double arrow
U+021D9	↙	↙	↙	↙	↙	↙	↙	<code>\Swarrow</code>	sw pointing double arrow
U+021DA	⇐	⇐	⇐	⇐	⇐	⇐	⇐	<code>\Lleftarrow<sup>(a)</sup></code>	left triple arrow
U+021DB	⇒	⇒	⇒	⇒	⇒	⇒	⇒	<code>\Rrightarrow<sup>(a)</sup></code>	right triple arrow
U+021DC	↤	↤	↤	↤	↤	↤	↤	<code>\leftsquigarrow</code>	leftwards squiggle arrow
U+021DD	↦	↦	↦	↦	↦	↦	↦	<code>\rightsquigarrow<sup>(a)</sup></code>	rightwards squiggle arrow
U+021E4	←				←	←	←	<code>\barleftarrow</code>	leftwards arrow to bar
U+021E5	→				→	→	→	<code>\rightarrowbar</code>	rightwards arrow to bar
U+021F4	→				→	→	→	<code>\circlearrowright</code>	right arrow with small circle
U+021F5	↓	↓	↓	↓	↓	↓	↓	<code>\downuparrows</code>	downwards arrow leftwards of upwards arrow
U+021F6	⇒	⇒	⇒	⇒	⇒	⇒	⇒	<code>\rightthreearrows</code>	three rightwards arrows
U+021F7	↔				↔	↔	↔	<code>\nvleftarrow</code>	leftwards arrow with vertical stroke
U+021F8	→				→	→	→	<code>\nvrightarrow</code>	rightwards arrow with vertical stroke
U+021F9	↔				↔	↔	↔	<code>\nvleftrightharrow</code>	left right arrow with vertical stroke
U+021FA	↔				↔	↔	↔	<code>\Nleftarrow</code>	leftwards arrow with double vertical stroke
U+021FB	→				→	→	→	<code>\Nrightarrow</code>	rightwards arrow with double vertical stroke
U+021FC	↔				↔	↔	↔	<code>\Nleftrightharrow</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:

usv	C	M	Lu	K	Le	N	F	Macro	Description
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)
U+02245	≡	≡	≡	≡	≡	≡	≡	<code>\cong<sup>(l)</sup></code>	congruent with
U+02246	⋈	⋉	⋊	⋋	⋌	⋍	⋎	<code>\simneqq</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

usv	C	M	Lu	K	Le	N	F	Macro	Description
U+02256								<code>\eqcirc<sup>(a)</sup></code>	circle on equals sign
U+02257								<code>\circeq<sup>(a)</sup></code>	circle, equals
U+02258								<code>\arceq</code>	arc, equals; corresponds to
U+02259								<code>\wedgeeq</code>	corresponds to (wedge, equals)
U+0225A								<code>\veeeq</code>	logical or, equals
U+0225B								<code>\stareq</code>	star equals
U+0225C								<code>\triangleq<sup>(a)</sup></code>	triangle, equals
U+0225D								<code>\eqdef</code>	equals by definition
U+0225E								<code>\measeq</code>	measured by (m over equals)
U+0225F								<code>\questeq</code>	equal with questionmark
U+02260								<code>\ne<sup>(p)</sup></code>	/ne /neq r: not equal
U+02261								<code>\equiv<sup>(p)</sup></code>	identical with
U+02262								<code>\nequiv</code>	not identical with
U+02263								<code>\Equiv</code>	strict equivalence (4 lines)
U+02264								<code>\leq<sup>(p)</sup></code>	/leq /le r: less-than-or-equal
U+02265								<code>\geq<sup>(p)</sup></code>	/geq /ge r: greater-than-or-equal
U+02266								<code>\leqq<sup>(a)</sup></code>	less, double equals
U+02267								<code>\geqq<sup>(a)</sup></code>	greater, double equals
U+02268								<code>\lneqq<sup>(a)</sup></code>	less, not double equals
U+02269								<code>\gneqq<sup>(a)</sup></code>	greater, not double equals
U+0226A								<code>\ll<sup>(p)</sup></code>	much less than, type 2
U+0226B								<code>\gg<sup>(p)</sup></code>	much greater than, type 2
U+0226C								<code>\between<sup>(a)</sup></code>	between
U+0226D								<code>\nasymp</code>	not asymptotically equal to
U+0226E								<code>\nless<sup>(a)</sup></code>	not less-than
U+0226F								<code>\ngtr<sup>(a)</sup></code>	not greater-than
U+02270								<code>\nleq<sup>(a)</sup></code>	not less-than-or-equal
U+02271								<code>\ngeq<sup>(a)</sup></code>	not greater-than-or-equal
U+02272								<code>\lesssim<sup>(a)</sup></code>	less, similar
U+02273								<code>\gtrsim<sup>(a)</sup></code>	greater, similar
U+02274								<code>\nlesssim</code>	not less, similar
U+02275								<code>\ngtrsim</code>	not greater, similar
U+02276								<code>\lessgtr<sup>(a)</sup></code>	less, greater
U+02277								<code>\gtrless<sup>(a)</sup></code>	greater, less

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+02278	⧻	⧻̸	⧻̸	⧻̸	⧻̸	⧻̸	⧻̸	<code>\nlessgtr</code>	not less, greater
U+02279	⧻̸	⧻̸	⧻̸	⧻̸	⧻̸	⧻̸	⧻̸	<code>\ngtrless</code>	not greater, less
U+0227A	⧻̸	⧻̸	⧻̸	⧻̸	⧻̸	⧻̸	⧻̸	<code>\prec<sup>(p)</sup></code>	precedes
U+0227B	⧻̸	⧻̸	⧻̸	⧻̸	⧻̸	⧻̸	⧻̸	<code>\succ<sup>(p)</sup></code>	succeeds
U+0227C	⧻̸	⧻̸	⧻̸	⧻̸	⧻̸	⧻̸	⧻̸	<code>\preccurlyeq<sup>(a)</sup></code>	precedes, curly equals
U+0227D	⧻̸	⧻̸	⧻̸	⧻̸	⧻̸	⧻̸	⧻̸	<code>\succcurlyeq<sup>(a)</sup></code>	succeeds, curly equals
U+0227E	⧻̸	⧻̸	⧻̸	⧻̸	⧻̸	⧻̸	⧻̸	<code>\precsim<sup>(a)</sup></code>	precedes, similar
U+0227F	⧻̸	⧻̸	⧻̸	⧻̸	⧻̸	⧻̸	⧻̸	<code>\succsim<sup>(a)</sup></code>	succeeds, similar
U+02280	⧻̸	⧻̸	⧻̸	⧻̸	⧻̸	⧻̸	⧻̸	<code>\nprec<sup>(a)</sup></code>	not precedes
U+02281	⧻̸	⧻̸	⧻̸	⧻̸	⧻̸	⧻̸	⧻̸	<code>\nsucc<sup>(a)</sup></code>	not succeeds
U+02282	⊂	⊂	⊂	⊂	⊂	⊂	⊂	<code>\subset<sup>(p)</sup></code>	subset or is implied by
U+02283	⊃	⊃	⊃	⊃	⊃	⊃	⊃	<code>\supset<sup>(p)</sup></code>	superset or implies
U+02284	⊄	⊄	⊄	⊄	⊄	⊄	⊄	<code>\nsubset</code>	not subset, variant [slash negation]
U+02285	⊇	⊇	⊇	⊇	⊇	⊇	⊇	<code>\nsupset</code>	not superset, variant [slash negation]
U+02286	⊆	⊆	⊆	⊆	⊆	⊆	⊆	<code>\subseteq<sup>(n)</sup></code>	subset, equals
U+02287	⊇	⊇	⊇	⊇	⊇	⊇	⊇	<code>\supseteq<sup>(n)</sup></code>	superset, equals
U+02288	⊈	⊈	⊈	⊈	⊈	⊈	⊈	<code>\nsubseteq<sup>(a)</sup></code>	not subset, equals
U+02289	⊉	⊉	⊉	⊉	⊉	⊉	⊉	<code>\nsupseteq<sup>(a)</sup></code>	not superset, equals
U+0228A	⊈	⊈	⊈	⊈	⊈	⊈	⊈	<code>\subsetneq<sup>(a)</sup></code>	subset, not equals
U+0228B	⊉	⊉	⊉	⊉	⊉	⊉	⊉	<code>\supsetneq<sup>(a)</sup></code>	superset, not equals
U+0228F	⊆	⊆	⊆	⊆	⊆	⊆	⊆	<code>\sqsubset</code>	square subset
U+02290	⊇	⊇	⊇	⊇	⊇	⊇	⊇	<code>\sqsupset</code>	square superset
U+02291	⊆	⊆	⊆	⊆	⊆	⊆	⊆	<code>\sqsubseteq<sup>(p)</sup></code>	square subset, equals
U+02292	⊇	⊇	⊇	⊇	⊇	⊇	⊇	<code>\sqsupseteq<sup>(p)</sup></code>	square superset, equals
U+022A2	⊥	⊥	⊥	⊥	⊥	⊥	⊥	<code>\vdash<sup>(p)</sup></code>	vertical, dash
U+022A3	⊥	⊥	⊥	⊥	⊥	⊥	⊥	<code>\dashv<sup>(p)</sup></code>	dash, vertical
U+022A6	⊥	⊥	⊥	⊥	⊥	⊥	⊥	<code>\assert</code>	assertion (vertical, short dash)
U+022A7	⊥	⊥	⊥	⊥	⊥	⊥	⊥	<code>\models<sup>(p)</sup></code>	models (vertical, short double dash)
U+022A8	⊥	⊥	⊥	⊥	⊥	⊥	⊥	<code>\vDash<sup>(a)</sup></code>	vertical, double dash
U+022A9	⊥	⊥	⊥	⊥	⊥	⊥	⊥	<code>\Vdash<sup>(a)</sup></code>	double vertical, dash
U+022AA	⊥	⊥	⊥	⊥	⊥	⊥	⊥	<code>\Vvdash<sup>(a)</sup></code>	triple vertical, dash
U+022AB	⊥	⊥	⊥	⊥	⊥	⊥	⊥	<code>\VDash</code>	double vert, double dash
U+022AC	⊥	⊥	⊥	⊥	⊥	⊥	⊥	<code>\nvDash<sup>(a)</sup></code>	not vertical, dash
























































































USV	C	M	Lu	K	Le	N	F	Macro	Description
U+022AD	≠	≠	≠	≠	≠	≠		<code>\nvDash<sup>(a)</sup></code>	not vertical, double dash
U+022AE	⋮	⋮	⋮	⋮	⋮	⋮		<code>\nVdash<sup>(a)</sup></code>	not double vertical, dash
U+022AF	⋮	⋮	⋮	⋮	⋮	⋮		<code>\nVDash<sup>(a)</sup></code>	not double vert, double dash
U+022B0	⋈				⋈	⋈		<code>\prurel</code>	element precedes under relation
U+022B1	⋈				⋈	⋈		<code>\scurel</code>	succeeds under relation
U+022B2	◁	◁	◁	◁	◁	◁		<code>\vartriangleleft<sup>(a)</sup></code>	left triangle, open, variant
U+022B3	▷	▷	▷	▷	▷	▷		<code>\vartriangleright<sup>(a)</sup></code>	right triangle, open, variant
U+022B4	⌵	⌵	⌵	⌵	⌵	⌵		<code>\trianglelefteq<sup>(a)</sup></code>	left triangle, equals
U+022B5	⌶	⌶	⌶	⌶	⌶	⌶		<code>\trianglerighteq<sup>(a)</sup></code>	right triangle, equals
U+022B6	⋈	⋈	⋈	⋈	⋈	⋈		<code>\origof</code>	original of
U+022B7	⋈	⋈	⋈	⋈	⋈	⋈		<code>\imageof</code>	image of
U+022B8	⋈	⋈	⋈	⋈	⋈	⋈		<code>\multimap<sup>(a)</sup></code>	/multimap a:
U+022C8	⋈	⋈	⋈	⋈	⋈	⋈		<code>\bowtie<sup>(p)</sup></code>	bowtie
U+022CD	⋈	⋈	⋈	⋈	⋈	⋈	⋈	<code>\backsimeq<sup>(a)</sup></code>	reverse similar, equals
U+022D0	⊆	⊆	⊆	⊆	⊆	⊆		<code>\Subset<sup>(a)</sup></code>	double subset
U+022D1	⊇	⊇	⊇	⊇	⊇	⊇		<code>\Supset<sup>(a)</sup></code>	double superset
U+022D4	⋈		⋈	⋈	⋈	⋈		<code>\pitchfork<sup>(a)</sup></code>	pitchfork
U+022D5	⋈	⋈	⋈	⋈	⋈	⋈		<code>\equalparallel</code>	parallel, equal; equal or parallel
U+022D6	⋈	⋈	⋈	⋈	⋈	⋈	⋈	<code>\lessdot<sup>(a)</sup></code>	less than, with dot
U+022D7	⋈	⋈	⋈	⋈	⋈	⋈	⋈	<code>\gtrdot<sup>(a)</sup></code>	greater than, with dot
U+022D8	⋈	⋈	⋈	⋈	⋈	⋈	⋈	<code>\lll<sup>(a)</sup></code>	/ll /lll /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>\npreccurlyeq</code>	not precedes, curly equals
U+022E1	⋈	⋈	⋈	⋈	⋈	⋈	⋈	<code>\nsucccurlyeq</code>	not succeeds, curly equals
U+022E2	⋈	⋈	⋈	⋈	⋈	⋈	⋈	<code>\nsqsubseteq</code>	not, square subset, equals
U+022E3	⋈	⋈	⋈	⋈	⋈	⋈	⋈	<code>\nsqsupseteq</code>	not, square superset, equals
U+022E4	⋈	⋈	⋈	⋈	⋈	⋈	⋈	<code>\sqsubsetneq</code>	square subset, not equals
U+022E5	⋈	⋈	⋈	⋈	⋈	⋈	⋈	<code>\sqsupsetneq</code>	square superset, not equals

USV	C	M	Lu	K	Le	N	F	Macro	Description
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
U+022F7	⊖̄				⊖̄	⊖̄		<code>\isinobar</code>	small element of with overbar
U+022F8	⊖̅				⊖̅	⊖̅		<code>\isinvb</code>	element of with underbar
U+022F9	⊖				⊖	⊖		<code>\isinE</code>	element of with two horizontal strokes
U+022FA	⊃				⊃	⊃		<code>\nisd</code>	contains with long horizontal stroke
U+022FB	⊃				⊃	⊃		<code>\varnis</code>	contains with vertical bar at end of horizontal stroke
U+022FC	⊃				⊃	⊃		<code>\nis</code>	small contains with vertical bar at end of horizontal stroke
U+022FD	⊃̄				⊃̄	⊃̄		<code>\varniobar</code>	contains with overbar
U+022FE	⊃̄				⊃̄	⊃̄		<code>\niobar</code>	small contains with overbar
U+022FF	⊍				⊍	⊍		<code>\bagmember</code>	z notation bag membership
U+02322	⤿	⤿	⤿	⤿	⤿	⤿		<code>\frown<sup>(p)</sup></code>	down curve
U+02323	⤿	⤿	⤿	⤿	⤿	⤿		<code>\smile<sup>(p)</sup></code>	up curve
U+0233F	⌢					⌢		<code>\APLnotslash</code>	solidus, bar through (apl functional symbol slash bar)
U+025B5			△	△	△	△		<code>\vartriangle<sup>(a)</sup></code>	/triangle - up triangle, open
U+027C2		⊥	⊥	⊥	⊥	⊥	⊥	<code>\perp<sup>(p)</sup></code>	perpendicular
U+027C8					⊂	⊂		<code>\bsolhsub</code>	reverse solidus preceding subset

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+027C9					↵	↵		\suphsol	superset preceding solidus
U+027D2	↴				↴	↴		\upin	element of opening upwards
U+027D3	↵				↵	↵		\pullback	lower right corner with dot
U+027D4	↶				↶	↶		\pushout	upper left corner with dot
U+027DA	↯	↯	↯	↯	↯	↯		\DashVDash	left and right double turnstile
U+027DB	↮	↮	↮	↮	↮	↮		\dashVdash	left and right tack
U+027DC	↰	↰	↰	↰	↰	↰		\multimapinv	left multimap
U+027DD	↱	↱	↱	↱	↱	↱		\vlongdash	long left tack
U+027DE	↲	↲	↲	↲	↲	↲		\longdashv	long right tack
U+027DF	↳				↳	↳		\cirbot	up tack with circle above
U+027F0	↴↴↴↴				↴↴↴↴	↴↴↴↴	↴↴↴↴	\UUparrow	upwards quadruple arrow
U+027F1	↵↵↵↵				↵↵↵↵	↵↵↵↵	↵↵↵↵	\DDownarrow	downwards quadruple arrow
U+027F2	↻				↻	↻	↻	\acwgapcirclearrow	anticlockwise gapped circle arrow
U+027F3	↻				↻	↻	↻	\cwgapcirclearrow	clockwise gapped circle arrow
U+027F4	⊕→	⊕→	⊕→	⊕→	⊕→	⊕→	⊕→	\rightarrowonoplus	right arrow with circled plus
U+027F5	←	←	←	←	←	←	←	\longleftarrow <sup>(p)</sup>	long leftwards arrow
U+027F6	→	→	→	→	→	→	→	\longrightarrow <sup>(p)</sup>	long rightwards arrow
U+027F7	↔	↔	↔	↔	↔	↔	↔	\longleftrightarrow <sup>(p)</sup>	long left right arrow
U+027F8	⇐	⇐	⇐	⇐	⇐	⇐	⇐	\Longleftarrow <sup>(p)</sup>	long leftwards double arrow
U+027F9	⇒	⇒	⇒	⇒	⇒	⇒	⇒	\Longrightarrow <sup>(p)</sup>	long rightwards double arrow
U+027FA	⇔	⇔	⇔	⇔	⇔	⇔	⇔	\Longleftrightarrow <sup>(p)</sup>	long left right double arrow
U+027FB	←̣	←̣	←̣	←̣	←̣	←̣	←̣	\longmapsfrom	long leftwards arrow from bar
U+027FC	→̣	→̣	→̣	→̣	→̣	→̣	→̣	\longmapsto <sup>(p)</sup>	long rightwards arrow from bar
U+027FD	⇐̣	⇐̣	⇐̣	⇐̣	⇐̣	⇐̣	⇐̣	\Longmapsfrom	long leftwards double arrow from bar
U+027FE	⇒̣	⇒̣	⇒̣	⇒̣	⇒̣	⇒̣	⇒̣	\Longmapsto	long rightwards double arrow from bar
U+027FF	→̃	→̃	→̃	→̃	→̃	→̃	→̃	\longrightsquigarrow	long rightwards squiggle arrow
U+02900	↔̣				↔̣	↔̣	↔̣	\nvtwoheadrightarrow	rightwards two-headed arrow with vertical stroke
U+02901	↔̣				↔̣	↔̣	↔̣	\nVtwoheadrightarrow	rightwards two-headed arrow with double vertical stroke
U+02902	⇔̣				⇔̣	⇔̣	⇔̣	\nvLeftarrow	leftwards double arrow with vertical stroke
U+02903	⇔̣				⇔̣	⇔̣	⇔̣	\nvRightarrow	rightwards double arrow with vertical stroke
U+02904	⇔̣				⇔̣	⇔̣	⇔̣	\nvLeftrightarrow	left right double arrow with vertical stroke

usv	C	M	Lu	K	Le	N	F	Macro	Description
U+02905	↠				↠	↠	↠	\twoheadmapsto	rightwards two-headed arrow from bar
U+02906	↠	↠	↠	↠	↠	↠	↠	\Mapsfrom	leftwards double arrow from bar
U+02907	↠	↠	↠	↠	↠	↠	↠	\Mapsto	rightwards double arrow from bar
U+02908	⇓				⇓	⇓	⇓	\downarrowbarred	downwards arrow with horizontal stroke
U+02909	⇑				⇑	⇑	⇑	\uparrowbarred	upwards arrow with horizontal stroke
U+0290A	⇑				⇑	⇑	⇑	\Uuparrow	upwards triple arrow
U+0290B	⇓				⇓	⇓	⇓	\Ddownarrow	downwards triple arrow
U+0290C	↔				↔	↔		\leftbckarrow	leftwards double dash arrow
U+0290D	↔				↔	↔		\rightbckarrow	rightwards double dash arrow
U+0290E	↔				↔	↔		\lefthdbkarrow	leftwards triple dash arrow
U+0290F	↔				↔	↔		\dbkarrow	rightwards triple dash arrow
U+02910	↔				↔	↔		\drbckarrow	rightwards two-headed triple dash arrow
U+02911	→				→	→		\rightdotarrow	rightwards arrow with dotted stem
U+02912	↑				↑	↑	↑	\baruparrow	upwards arrow to bar
U+02913	↓				↓	↓	↓	\downarrowbar	downwards arrow to bar
U+02914	↗				↗	↗	↗	\nvrightarrowtail	rightwards arrow with tail with vertical stroke
U+02915	↗				↗	↗	↗	\nVrightarrowtail	rightwards arrow with tail with double vertical stroke
U+02916	↗				↗	↗	↗	\twoheadrightarrowtail	rightwards two-headed arrow with tail
U+02917	↗				↗	↗	↗	\nvtwoheadrightarrowtail	rightwards two-headed arrow with tail with vertical stroke
U+02918	↗				↗	↗	↗	\nVtwoheadrightarrowtail	rightwards two-headed arrow with tail with double vertical stroke
U+02919	↖				↖	↖	↖	\lefttail	leftwards arrow-tail
U+0291A	↖				↖	↖	↖	\righttail	rightwards arrow-tail
U+0291B	↖				↖	↖	↖	\lefthdbltail	leftwards double arrow-tail
U+0291C	↖				↖	↖	↖	\righthdbltail	rightwards double arrow-tail
U+0291D	↖				↖	↖		\diamondleftarrow	leftwards arrow to black diamond
U+0291E	↖				↖	↖		\rightarrowdiamond	rightwards arrow to black diamond
U+0291F	↖				↖	↖		\diamondleftarrowbar	leftwards arrow from bar to black diamond
U+02920	↖				↖	↖		\barrightarrowdiamond	rightwards arrow from bar to black diamond

usv	C	M	Lu	K	Le	N	F	Macro	Description
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>\hksvarrow</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
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>\acwcirculararrow</code>	anticlockwise closed circle arrow
U+02941								<code>\cwcirculararrow</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

usv	C	M	Lu	K	Le	N	F	Macro	Description
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>\barleftharpoonup</code>	leftwards harpoon with barb up to bar
U+02953	↠				↠	↠		<code>\rightharpoonupbar</code>	rightwards harpoon with barb up to bar
U+02954	↠				↠	↠		<code>\barupharpoonright</code>	upwards harpoon with barb right to bar
U+02955	↕				↕	↕		<code>\downharpoonrightbar</code>	downwards harpoon with barb right to bar
U+02956	↠				↠	↠		<code>\barleftharpoondown</code>	leftwards harpoon with barb down to bar
U+02957	↠				↠	↠		<code>\rightharpoondownbar</code>	rightwards harpoon with barb down to bar
U+02958	↠				↠	↠		<code>\barupharpoonleft</code>	upwards harpoon with barb left to bar
U+02959	↕				↕	↕		<code>\downharpoonleftbar</code>	downwards harpoon with barb left to bar
U+0295A	↠				↠	↠	↠	<code>\leftharpoonupbar</code>	leftwards harpoon with barb up from bar
U+0295B	↠				↠	↠	↠	<code>\barriightharpoonup</code>	rightwards harpoon with barb up from bar
U+0295C	↕				↕	↕	↕	<code>\upharpoonrightbar</code>	upwards harpoon with barb right from bar
U+0295D	↕				↕	↕	↕	<code>\bardownharpoonright</code>	downwards harpoon with barb right from bar
U+0295E	↠				↠	↠	↠	<code>\leftharpoondownbar</code>	leftwards harpoon with barb down from bar

usv	C	M	Lu	K	Le	N	F	Macro	Description
U+0295F	↗				↗	↗	↗	\barrightharpoondown	rightwards harpoon with barb down from bar
U+02960	↖				↖	↖	↖	\upharpoonleftbar	upwards harpoon with barb left from bar
U+02961	↙				↙	↙	↙	\bardownharpoonleft	downwards harpoon with barb left from bar
U+02962	⇐				⇐	⇐		\leftharpoonsupdown	leftwards harpoon with barb up above leftwards harpoon with barb down
U+02963	↗↖				↗↖	↗↖		\upharpoonsleftright	upwards harpoon with barb left beside upwards harpoon with barb right
U+02964	⇒				⇒	⇒		\rightharpoonsupdown	rightwards harpoon with barb up above rightwards harpoon with barb down
U+02965	↙↘				↙↘	↙↘		\downharpoonsleftright	downwards harpoon with barb left beside downwards harpoon with barb right
U+02966	⇐↗				⇐↗	⇐↗		\leftrightharpoonsup	leftwards harpoon with barb up above rightwards harpoon with barb up
U+02967	⇒↙				⇒↙	⇒↙		\leftrightharpoonsdown	leftwards harpoon with barb down above rightwards harpoon with barb down
U+02968	⇐↗↖				⇐↗↖	⇐↗↖		\rightleftharpoonsup	rightwards harpoon with barb up above leftwards harpoon with barb up
U+02969	⇒↙↘				⇒↙↘	⇒↙↘		\rightleftharpoonsdown	rightwards harpoon with barb down above leftwards harpoon with barb down
U+0296A	⇐↖				⇐↖	⇐↖		\leftharpoonupdash	leftwards harpoon with barb up above long dash
U+0296B	⇐↙				⇐↙	⇐↙		\dashleftharpoondown	leftwards harpoon with barb down below long dash
U+0296C	⇒↗				⇒↗	⇒↗		\rightharpoonupdash	rightwards harpoon with barb up above long dash
U+0296D	⇒↘				⇒↘	⇒↘		\dashrightharpoondown	rightwards harpoon with barb down below long dash
U+0296E	↗↙↘				↗↙↘	↗↙↘	↗↙↘	\updownharpoonsleftright	upwards harpoon with barb left beside downwards harpoon with barb right
U+0296F	↙↗↖				↙↗↖	↙↗↖	↙↗↖	\downupharpoonsleftright	downwards harpoon with barb left beside upwards harpoon with barb right
U+02970	⇒⇒				⇒⇒	⇒⇒		\rightimply	right double arrow with rounded head
U+02971	⇒⇒				⇒⇒	⇒⇒		\equalrightarrow	equals sign above rightwards arrow
U+02972	⇒⇒				⇒⇒	⇒⇒		\similarrightarrow	tilde operator above rightwards arrow
U+02973	⇐⇐				⇐⇐	⇐⇐		\leftarrowsimilar	leftwards arrow above tilde operator

usv	C	M	Lu	K	Le	N	F	Macro	Description
U+02974	➔				➔	➔		\rightarrowsimilar	rightwards arrow above tilde operator
U+02975	➖				➖	➖		\rightarrowapprox	rightwards arrow above almost equal to
U+02976	↵				↵	↵		\ltlarr	less-than above leftwards arrow
U+02977	↶				↶	↶		\leftarrowless	leftwards arrow through less-than
U+02978	➤				➤	➤		\gtrarr	greater-than above rightwards arrow
U+02979	➦				➦	➦		\subrarr	subset above rightwards arrow
U+0297A	↷				↷	↷		\leftarrowsubset	leftwards arrow through subset
U+0297B	➧				➧	➧		\suplarr	superset above leftwards arrow
U+0297C	↵				↵	↵		\leftfishtail	left fish tail
U+0297D	↶				↶	↶		\rightfishtail	right fish tail
U+0297E	↵				↵	↵		\upfishtail	up fish tail
U+0297F	↶				↶	↶		\downfishtail	down fish tail
U+02982	⋈				⋈	⋈		\typecolon	z notation type colon
U+029CE	▵				▵	▵		\rtriltri	right triangle above left triangle
U+029CF	◁				◁	◁		\ltrivb	left triangle beside vertical bar
U+029D0	▷				▷	▷		\vbrtri	vertical bar beside right triangle
U+029D1	⌘				⌘	⌘		\lfbowtie	left black bowtie
U+029D2	⌘				⌘	⌘		\rfbowtie	right black bowtie
U+029D3	⌘				⌘	⌘		\fbowtie	black bowtie
U+029D4	⌘				⌘	⌘		\lftimes	left black times
U+029D5	⌘				⌘	⌘		\rftimes	right black times
U+029DF	↔		↔	↔	↔	↔		\dualmap	double-ended multimap
U+029E1	≧				≧	≧		\lrtriangleeq	increases as
U+029E3	≍				≍	≍		\eparsl	equals sign and slanted parallel
U+029E4	≍̃				≍̃	≍̃		\smeparsl	equals sign and slanted parallel with tilde above
U+029E5	≍				≍	≍		\eqvparsl	identical to and slanted parallel
U+029E6	≡				≡	≡		\gleichstark	gleich stark
U+029F4	⤴				⤴	⤴		\ruledelayed	rule-delayed
U+02A59	⋈				⋈	⋈		\veeonwedge	logical or overlapping logical and
U+02A66	≐				≐	≐		\eqdot	equals sign with dot below
U+02A67	≐̇				≐̇	≐̇		\dotequiv	identical with dot above
U+02A68	≡				≡	≡		\equivVert	triple horizontal bar with double vertical stroke



USV	C	M	Lu	K	Le	N	F	Macro	Description
U+02A69	≡				≡	≡		\equivVvert	triple horizontal bar with triple vertical stroke
U+02A6A	˜̇				˜̇	˜̇		\dotsim	tilde operator with dot above
U+02A6B	˜̈́				˜̈́	˜̈́		\simrdots	tilde operator with rising dots
U+02A6C	≈				≈	≈		\simminussim	similar minus similar
U+02A6D	≡̇				≡̇	≡̇		\congdot	congruent with dot above
U+02A6E	≡*				≡*	≡*		\asteq	equals with asterisk
U+02A6F	≈̂				≈̂	≈̂		\hatapprox	almost equal to with circumflex accent
U+02A70	≈̃				≈̃	≈̃		\approxeqq	approximately equal or equal to
U+02A73	≡̂				≡̂	≡̂		\eqqsim	equals sign above tilde operator
U+02A74	≡≡			≡≡	≡≡	≡≡		\Coloneq	double colon equal
U+02A75	==				==	==		\eqeq	two consecutive equals signs
U+02A76	===				===	===		\eqeqeq	three consecutive equals signs
U+02A77	≡̈́				≡̈́	≡̈́		\ddotseq	equals sign with two dots above and two dots below
U+02A78	≡≡≡				≡≡≡	≡≡≡		\equivDD	equivalent with four dots above
U+02A79	⋈				⋈	⋈		\ltcir	less-than with circle inside
U+02A7A	⋉				⋉	⋉		\gtcir	greater-than with circle inside
U+02A7B	⋈?				⋈?	⋈?		\ltquest	less-than with question mark above
U+02A7C	⋉?				⋉?	⋉?		\gtquest	greater-than with question mark above
U+02A7D	⋈	⋈	⋈	⋈	⋈	⋈	⋈	\leqslant <sup>(a)</sup>	less-than or slanted equal to
U+02A7E	⋉	⋉	⋉	⋉	⋉	⋉	⋉	\geqslant <sup>(a)</sup>	greater-than or slanted equal to
U+02A7F	⋈̇				⋈̇	⋈̇		\lesdot	less-than or slanted equal to with dot inside
U+02A80	⋉̇				⋉̇	⋉̇		\gesdot	greater-than or slanted equal to with dot inside
U+02A81	⋈̇				⋈̇	⋈̇		\lesdoto	less-than or slanted equal to with dot above
U+02A82	⋉̇				⋉̇	⋉̇		\gesdoto	greater-than or slanted equal to with dot above
U+02A83	⋈̇				⋈̇	⋈̇		\lesdotor	less-than or slanted equal to with dot above right
U+02A84	⋉̇				⋉̇	⋉̇		\gesdoto1	greater-than or slanted equal to with dot above left
U+02A85	≈	≈	≈	≈	≈	≈		\lessapprox <sup>(a)</sup>	less-than or approximate
U+02A86	≳	≳	≳	≳	≳	≳		\gtrapprox <sup>(a)</sup>	greater-than or approximate
U+02A87	⋈	⋈	⋈	⋈	⋈	⋈		\lneq <sup>(a)</sup>	less-than and single-line not equal to

USV	C	M	Lu	K	Le	N	F	Macro	Description
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>\lesseqqgtr<sup>(a)</sup></code>	less-than above double-line equal above greater-than
U+02A8C	➤	➤	➤	➤	➤	➤		<code>\gtreqqless<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>\lsing</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
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

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+02AA2	➤				➤	➤		\Gt	double nested greater-than
U+02AA3	⋈				⋈	⋈		\partialmeetcontraction	double less-than with underbar
U+02AA4	⋈				⋈	⋈		\glj	greater-than overlapping less-than
U+02AA5	⋈				⋈	⋈		\gla	greater-than beside less-than
U+02AA6	▷				▷	▷		\ltcc	less-than closed by curve
U+02AA7	▷				▷	▷		\gtcc	greater-than closed by curve
U+02AA8	▷				▷	▷		\lescc	less-than closed by curve above slanted equal
U+02AA9	▷				▷	▷		\gescc	greater-than closed by curve above slanted equal
U+02AAA	⋈				⋈	⋈		\smt	smaller than
U+02AAB	➤				➤	➤		\lat	larger than
U+02AAC	⋈				⋈	⋈		\smte	smaller than or equal to
U+02AAD	⋈				⋈	⋈		\late	larger than or equal to
U+02AAE	⋈				⋈	⋈		\bumpeq	equals sign with bumpy above
U+02AAF	⋈	⋈	⋈	⋈	⋈	⋈		\preceq <sup>(p)</sup>	precedes above single-line equals sign
U+02AB0	⋈	⋈	⋈	⋈	⋈	⋈		\succeq <sup>(p)</sup>	succeeds above single-line equals sign
U+02AB1	⋈		⋈	⋈	⋈	⋈		\precneq	precedes above single-line not equal to
U+02AB2	⋈		⋈	⋈	⋈	⋈		\succneq	succeeds above single-line not equal to
U+02AB3	⋈		⋈	⋈	⋈	⋈		\preceqq	precedes above equals sign
U+02AB4	⋈		⋈	⋈	⋈	⋈		\succeqq	succeeds above equals sign
U+02AB5	⋈		⋈	⋈	⋈	⋈		\precneqq <sup>(a)</sup>	precedes above not equal to
U+02AB6	⋈		⋈	⋈	⋈	⋈		\succneqq <sup>(a)</sup>	succeeds above not equal to
U+02AB7	⋈		⋈	⋈	⋈	⋈		\precapprox <sup>(a)</sup>	precedes above almost equal to
U+02AB8	⋈		⋈	⋈	⋈	⋈		\succapprox <sup>(a)</sup>	succeeds above almost equal to
U+02AB9	⋈		⋈	⋈	⋈	⋈		\precnapprox <sup>(a)</sup>	precedes above not almost equal to
U+02ABA	⋈		⋈	⋈	⋈	⋈		\succnapprox <sup>(a)</sup>	succeeds above not almost equal to
U+02ABB	⋈				⋈	⋈		\Prec	double precedes
U+02ABC	➤				➤	➤		\Succ	double succeeds
U+02ABD	⋈				⋈	⋈		\subsetdot	subset with dot
U+02ABE	⋈				⋈	⋈		\supsetdot	superset with dot
U+02ABF	⋈				⋈	⋈		\subsetplus	subset with plus sign below
U+02AC0	⋈				⋈	⋈		\supsetplus	superset with plus sign below

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+02AC1	𐀁				𐀁	𐀁		<code>\submult</code>	subset with multiplication sign below
U+02AC2	𐀂				𐀂	𐀂		<code>\supmult</code>	superset with multiplication sign below
U+02AC3	𐀃				𐀃	𐀃		<code>\subedot</code>	subset of or equal to with dot above
U+02AC4	𐀄				𐀄	𐀄		<code>\supedot</code>	superset of or equal to with dot above
U+02AC5	𐀅		𐀅	𐀅	𐀅	𐀅		<code>\subseteqq<sup>(a)</sup></code>	subset of above equals sign
U+02AC6	𐀆		𐀆	𐀆	𐀆	𐀆		<code>\supseteqq<sup>(a)</sup></code>	superset of above equals sign
U+02AC7	𐀇				𐀇	𐀇		<code>\subset</code>	subset of above tilde operator
U+02AC8	𐀈				𐀈	𐀈		<code>\supset</code>	superset of above tilde operator
U+02AC9	𐀉				𐀉	𐀉		<code>\subsetapprox</code>	subset of above almost equal to
U+02ACA	𐀊				𐀊	𐀊		<code>\supsetapprox</code>	superset of above almost equal to
U+02ACB	𐀋		𐀋	𐀋	𐀋	𐀋		<code>\subsetneqq<sup>(a)</sup></code>	subset of above not equal to
U+02ACC	𐀌		𐀌	𐀌	𐀌	𐀌		<code>\supsetneqq<sup>(a)</sup></code>	superset of above not equal to
U+02ACD	𐀍				𐀍	𐀍		<code>\lshook</code>	square left open box operator
U+02ACE	𐀎				𐀎	𐀎		<code>\rshook</code>	square right open box operator
U+02ACF	𐀏				𐀏	𐀏		<code>\csub</code>	closed subset
U+02AD0	𐀐				𐀐	𐀐		<code>\csup</code>	closed superset
U+02AD1	𐀑				𐀑	𐀑		<code>\csube</code>	closed subset or equal to
U+02AD2	𐀒				𐀒	𐀒		<code>\csupe</code>	closed superset or equal to
U+02AD3	𐀓				𐀓	𐀓		<code>\subsup</code>	subset above superset
U+02AD4	𐀔				𐀔	𐀔		<code>\supsub</code>	superset above subset
U+02AD5	𐀕				𐀕	𐀕		<code>\subsub</code>	subset above subset
U+02AD6	𐀖				𐀖	𐀖		<code>\supsup</code>	superset above superset
U+02AD7	𐀗				𐀗	𐀗		<code>\suphsub</code>	superset beside subset
U+02AD8	𐀘				𐀘	𐀘		<code>\supdsub</code>	superset beside and joined by dash with subset
U+02AD9	𐀙				𐀙	𐀙		<code>\forkv</code>	element of opening downwards
U+02ADA	𐀚				𐀚	𐀚		<code>\topfork</code>	pitchfork with tee top
U+02ADB	𐀛				𐀛	𐀛		<code>\mlcp</code>	transversal intersection
U+02ADC	𐀜				𐀜	𐀜		<code>\forks</code>	forking
U+02ADD	𐀝				𐀝	𐀝		<code>\forksnot</code>	nonforking
U+02ADE	𐀞				𐀞	𐀞		<code>\shortlefttack</code>	short left tack
U+02ADF	𐀟				𐀟	𐀟		<code>\shortdowntack</code>	short down tack
U+02AE0	𐀠				𐀠	𐀠		<code>\shortuptack</code>	short up tack

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+02AE2	≡				≡	≡		\vDdash	vertical bar triple right turnstile
U+02AE3	≡				≡	≡		\dashV	double vertical bar left turnstile
U+02AE4	≡				≡	≡		\Dashv	vertical bar double left turnstile
U+02AE5	≡				≡	≡		\DashV	double vertical bar double left turnstile
U+02AE6	≡				≡	≡		\varVdash	long dash from left member of double vertical
U+02AE7	≡				≡	≡		\Barv	short down tack with overbar
U+02AE8	≡				≡	≡		\vBar	short up tack with underbar
U+02AE9	≡				≡	≡		\vBarv	short up tack above short down tack
U+02AEA	≡			≡	≡	≡		\barV	double down tack
U+02AEB	≡			≡	≡	≡		\Vbar	double up tack
U+02AEC	≡				≡	≡		\Not	double stroke not sign
U+02AED	≡				≡	≡		\bNot	reversed double stroke not sign
U+02AEE	≡				≡	≡		\revnmid	does not divide with reversed negation slash
U+02AEF	≡				≡	≡		\cirmid	vertical line with circle above
U+02AF0	≡				≡	≡		\midcir	vertical line with circle below
U+02AF2	≡				≡	≡		\nhpar	parallel with horizontal stroke
U+02AF3	≡				≡	≡		\parsim	parallel with tilde operator
U+02AF7	≡				≡	≡		\lllnest	stacked very much less-than
U+02AF8	≡				≡	≡		\gggnest	stacked very much greater-than
U+02AF9	≡		≡	≡	≡	≡		\leqqslant	double-line slanted less-than or equal to
U+02AFA	≡		≡	≡	≡	≡		\geqqslant	double-line slanted greater-than or equal to
U+02B30					↵	↵	↵	\circleonleftarrow	left arrow with small circle
U+02B31		↵	↵	↵	↵	↵	↵	\leftthreearrows	three leftwards arrows
U+02B32					↵	↵	↵	\leftarrowonoplus	left arrow with circled plus
U+02B33		↵	↵	↵	↵	↵	↵	\longleftsquigarrow	long leftwards squiggle arrow
U+02B34					↵	↵	↵	\nvtwoheadleftarrow	leftwards two-headed arrow with vertical stroke
U+02B35					↵	↵	↵	\nVtwoheadleftarrow	leftwards two-headed arrow with double vertical stroke
U+02B36					↵	↵	↵	\twoheadmapsfrom	leftwards two-headed arrow from bar
U+02B37					↵	↵	↵	\twoheadleftdbkarrow	leftwards two-headed triple-dash arrow
U+02B38					↵	↵	↵	\leftdotarrow	leftwards arrow with dotted stem

usv	C	M	Lu	K	Le	N	F	Macro	Description
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
U+02B44					➤	➤		<code>\rightarrowsupset</code>	rightwards arrow through subset
U+02B45					↵	↵	↵	<code>\Lleftarrow</code>	leftwards quadruple arrow
U+02B46					➤	➤	➤	<code>\Rrightarrow</code>	rightwards quadruple arrow
U+02B47					↵	↵		<code>\bsimilarrightarrow</code>	reverse tilde operator above rightwards arrow
U+02B48					➤	➤		<code>\rightarrowbackapprox</code>	rightwards arrow above reverse almost equal to
U+02B49					↵	↵		<code>\similarleftarrow</code>	tilde operator above leftwards arrow
U+02B4A					↵	↵		<code>\leftarrowapprox</code>	leftwards arrow above almost equal to
U+02B4B					↵	↵		<code>\leftarrowbsimilar</code>	leftwards arrow above reverse tilde operator
U+02B4C					➤	➤		<code>\rightarrowbsimilar</code>	rightwards arrow above reverse tilde operator

## 15 Alphabetical symbols, \mathalpha

### 15.1 Normal weight

#### 15.1.1 Upright Greek, uppercase

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

usv	C	M	Lu	K	Le	N	F	Macro	Description
U+003B3	γ	γ	Υ	γ	Υ	Υ	Υ	\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
U+003C5	υ	υ	Υ	υ	Υ	Υ	Υ	\mupupsilon	small upsilon, greek
U+003C6	φ	φ	Φ	φ	Φ	Φ	Φ	\mupvarphi	curly or open small phi, greek
U+003C7	χ	χ	Χ	χ	Χ	Χ	Χ	\mupchi	small chi, greek
U+003C8	ψ	ψ	Ψ	ψ	Ψ	Ψ	Ψ	\muppsi	small psi, greek
U+003C9	ω	ω	Ω	ω	Ω	Ω	Ω	\mupomega	small omega, greek
U+003D1	ϑ	ϑ	Θ	ϑ	Θ	Θ	Θ	\mupvarthetaeta	/varthetaeta - curly or open theta
U+003D5	ϕ	ϕ	Φ	ϕ	Φ	Φ	Φ	\mupphi	/straightphi - small phi, greek
U+003D6	ω	ω	Ω	ω	Ω	Ω	Ω	\mupvarpi	rounded small pi (pomega), greek
U+003DC	Ϝ			Ϝ	Ϝ	Ϝ		\upDigamma	capital digamma
U+003DD	ϝ				ϝ	ϝ		\updigamma	old greek small letter digamma
U+003F0	Ϟ	Ϟ	Ϟ	Ϟ	Ϟ	Ϟ	Ϟ	\mupvarkappa	rounded small kappa, greek
U+003F1	Ϡ	Ϡ	Ϡ	Ϡ	Ϡ	Ϡ	Ϡ	\mupvarrho	rounded small rho, greek
U+003F4		Θ	Θ	Θ	Θ	Θ	Θ	\mupvarTheta	greek capital theta symbol
U+003F5	ϵ	ϵ	Ε	ϵ	Ε	Ε	Ε	\mupepsilon	greek lunate varepsilon symbol



### 15.1.3 Italic, Latin, uppercase

usv	C	M	Lu	K	Le	N	F	Macro	Description
U+1D434	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	\mitA	mathematical italic capital a
U+1D435	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	\mitB	mathematical italic capital b
U+1D436	<i>C</i>	<i>C</i>	<i>C</i>	<i>C</i>	<i>C</i>	<i>C</i>	<i>C</i>	\mitC	mathematical italic capital c
U+1D437	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	\mitD	mathematical italic capital d
U+1D438	<i>E</i>	<i>E</i>	<i>E</i>	<i>E</i>	<i>E</i>	<i>E</i>	<i>E</i>	\mitE	mathematical italic capital e
U+1D439	<i>F</i>	<i>F</i>	<i>F</i>	<i>F</i>	<i>F</i>	<i>F</i>	<i>F</i>	\mitF	mathematical italic capital f
U+1D43A	<i>G</i>	<i>G</i>	<i>G</i>	<i>G</i>	<i>G</i>	<i>G</i>	<i>G</i>	\mitG	mathematical italic capital g
U+1D43B	<i>H</i>	<i>H</i>	<i>H</i>	<i>H</i>	<i>H</i>	<i>H</i>	<i>H</i>	\mitH	mathematical italic capital h
U+1D43C	<i>I</i>	<i>I</i>	<i>I</i>	<i>I</i>	<i>I</i>	<i>I</i>	<i>I</i>	\mitI	mathematical italic capital i
U+1D43D	<i>J</i>	<i>J</i>	<i>J</i>	<i>J</i>	<i>J</i>	<i>J</i>	<i>J</i>	\mitJ	mathematical italic capital j
U+1D43E	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>	\mitK	mathematical italic capital k
U+1D43F	<i>L</i>	<i>L</i>	<i>L</i>	<i>L</i>	<i>L</i>	<i>L</i>	<i>L</i>	\mitL	mathematical italic capital l
U+1D440	<i>M</i>	<i>M</i>	<i>M</i>	<i>M</i>	<i>M</i>	<i>M</i>	<i>M</i>	\mitM	mathematical italic capital m
U+1D441	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	\mitN	mathematical italic capital n
U+1D442	<i>O</i>	<i>O</i>	<i>O</i>	<i>O</i>	<i>O</i>	<i>O</i>	<i>O</i>	\mitO	mathematical italic capital o
U+1D443	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	\mitP	mathematical italic capital p
U+1D444	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	\mitQ	mathematical italic capital q
U+1D445	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	\mitR	mathematical italic capital r
U+1D446	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	\mitS	mathematical italic capital s
U+1D447	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	\mitT	mathematical italic capital t
U+1D448	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>	\mitU	mathematical italic capital u
U+1D449	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	\mitV	mathematical italic capital v
U+1D44A	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	\mitW	mathematical italic capital w
U+1D44B	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	\mitX	mathematical italic capital x
U+1D44C	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	\mitY	mathematical italic capital y
U+1D44D	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	\mitZ	mathematical italic capital z

### 15.1.4 Italic, Latin, lowercase

usv	C	M	Lu	K	Le	N	F	Macro	Description
U+1D44E	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	\mita	mathematical italic small a
U+1D44F	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	\mitb	mathematical italic small b

usv	C	M	Lu	K	Le	N	F	Macro	Description
U+1D450	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<code>\mitc</code>	mathematical italic small c
U+1D451	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>	<code>\mitd</code>	mathematical italic small d
U+1D452	<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>	<code>\mite</code>	mathematical italic small e
U+1D453	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>	<code>\mitf</code>	mathematical italic small f
U+1D454	<i>g</i>	<i>g</i>	<i>g</i>	<i>g</i>	<i>g</i>	<i>g</i>	<i>g</i>	<code>\mitg</code>	mathematical italic small g
U+1D456	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>	<code>\miti</code>	mathematical italic small i
U+1D457	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>	<code>\mitj</code>	mathematical italic small j
U+1D458	<i>k</i>	<i>k</i>	<i>k</i>	<i>k</i>	<i>k</i>	<i>k</i>	<i>k</i>	<code>\mitk</code>	mathematical italic small k
U+1D459	<i>l</i>	<i>l</i>	<i>l</i>	<i>l</i>	<i>l</i>	<i>l</i>	<i>l</i>	<code>\mitl</code>	mathematical italic small l
U+1D45A	<i>m</i>	<i>m</i>	<i>m</i>	<i>m</i>	<i>m</i>	<i>m</i>	<i>m</i>	<code>\mitm</code>	mathematical italic small m
U+1D45B	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<code>\mitn</code>	mathematical italic small n
U+1D45C	<i>o</i>	<i>o</i>	<i>o</i>	<i>o</i>	<i>o</i>	<i>o</i>	<i>o</i>	<code>\mito</code>	mathematical italic small o
U+1D45D	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>	<code>\mitp</code>	mathematical italic small p
U+1D45E	<i>q</i>	<i>q</i>	<i>q</i>	<i>q</i>	<i>q</i>	<i>q</i>	<i>q</i>	<code>\mitq</code>	mathematical italic small q
U+1D45F	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<code>\mitr</code>	mathematical italic small r
U+1D460	<i>s</i>	<i>s</i>	<i>s</i>	<i>s</i>	<i>s</i>	<i>s</i>	<i>s</i>	<code>\mits</code>	mathematical italic small s
U+1D461	<i>t</i>	<i>t</i>	<i>t</i>	<i>t</i>	<i>t</i>	<i>t</i>	<i>t</i>	<code>\mitt</code>	mathematical italic small t
U+1D462	<i>u</i>	<i>u</i>	<i>u</i>	<i>u</i>	<i>u</i>	<i>u</i>	<i>u</i>	<code>\mitu</code>	mathematical italic small u
U+1D463	<i>v</i>	<i>v</i>	<i>v</i>	<i>v</i>	<i>v</i>	<i>v</i>	<i>v</i>	<code>\mitv</code>	mathematical italic small v
U+1D464	<i>w</i>	<i>w</i>	<i>w</i>	<i>w</i>	<i>w</i>	<i>w</i>	<i>w</i>	<code>\mitw</code>	mathematical italic small w
U+1D465	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>	<code>\mitx</code>	mathematical italic small x
U+1D466	<i>y</i>	<i>y</i>	<i>y</i>	<i>y</i>	<i>y</i>	<i>y</i>	<i>y</i>	<code>\mity</code>	mathematical italic small y
U+1D467	<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>	<code>\mitz</code>	mathematical italic small z

### 15.1.5 Italic Greek, uppercase

usv	C	M	Lu	K	Le	N	F	Macro	Description
U+1D6E2	<i>Α</i>	<i>Α</i>	<i>Α</i>	<i>Α</i>	<i>Α</i>	<i>Α</i>	<i>Α</i>	<code>\mitAlpha</code>	mathematical italic capital alpha
U+1D6E3	<i>Β</i>	<i>Β</i>	<i>Β</i>	<i>Β</i>	<i>Β</i>	<i>Β</i>	<i>Β</i>	<code>\mitBeta</code>	mathematical italic capital beta
U+1D6E4	<i>Γ</i>	<i>Γ</i>	<i>Γ</i>	<i>Γ</i>	<i>Γ</i>	<i>Γ</i>	<i>Γ</i>	<code>\mitGamma</code>	mathematical italic capital gamma
U+1D6E5	<i>Δ</i>	<i>Δ</i>	<i>Δ</i>	<i>Δ</i>	<i>Δ</i>	<i>Δ</i>	<i>Δ</i>	<code>\mitDelta</code>	mathematical italic capital delta
U+1D6E6	<i>Ε</i>	<i>Ε</i>	<i>Ε</i>	<i>Ε</i>	<i>Ε</i>	<i>Ε</i>	<i>Ε</i>	<code>\mitEpsilon</code>	mathematical italic capital epsilon
U+1D6E7	<i>Ζ</i>	<i>Ζ</i>	<i>Ζ</i>	<i>Ζ</i>	<i>Ζ</i>	<i>Ζ</i>	<i>Ζ</i>	<code>\mitZeta</code>	mathematical italic capital zeta

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+1D6E8	<i>ℋ</i>	<i>ℋ</i>	<i>ℋ</i>	<i>ℋ</i>	<i>ℋ</i>	<i>ℋ</i>	<i>ℋ</i>	<code>\mitEta</code>	mathematical italic capital eta
U+1D6E9	<i>ℹ</i>	<i>ℹ</i>	<i>ℹ</i>	<i>ℹ</i>	<i>ℹ</i>	<i>ℹ</i>	<i>ℹ</i>	<code>\mitTheta</code>	mathematical italic capital theta
U+1D6EA	<i>ℐ</i>	<i>ℐ</i>	<i>ℐ</i>	<i>ℐ</i>	<i>ℐ</i>	<i>ℐ</i>	<i>ℐ</i>	<code>\mitIota</code>	mathematical italic capital iota
U+1D6EB	<i>ℐ</i>	<i>ℐ</i>	<i>ℐ</i>	<i>ℐ</i>	<i>ℐ</i>	<i>ℐ</i>	<i>ℐ</i>	<code>\mitKappa</code>	mathematical italic capital kappa
U+1D6EC	<i>ℒ</i>	<i>ℒ</i>	<i>ℒ</i>	<i>ℒ</i>	<i>ℒ</i>	<i>ℒ</i>	<i>ℒ</i>	<code>\mitLambda</code>	mathematical italic capital lambda
U+1D6ED	<i>ℳ</i>	<i>ℳ</i>	<i>ℳ</i>	<i>ℳ</i>	<i>ℳ</i>	<i>ℳ</i>	<i>ℳ</i>	<code>\mitMu</code>	mathematical italic capital mu
U+1D6EE	<i>ℴ</i>	<i>ℴ</i>	<i>ℴ</i>	<i>ℴ</i>	<i>ℴ</i>	<i>ℴ</i>	<i>ℴ</i>	<code>\mitNu</code>	mathematical italic capital nu
U+1D6EF	<i>ℵ</i>	<i>ℵ</i>	<i>ℵ</i>	<i>ℵ</i>	<i>ℵ</i>	<i>ℵ</i>	<i>ℵ</i>	<code>\mitXi</code>	mathematical italic capital xi
U+1D6F0	<i>ℶ</i>	<i>ℶ</i>	<i>ℶ</i>	<i>ℶ</i>	<i>ℶ</i>	<i>ℶ</i>	<i>ℶ</i>	<code>\mitOmicron</code>	mathematical italic capital omicron
U+1D6F1	<i>ℷ</i>	<i>ℷ</i>	<i>ℷ</i>	<i>ℷ</i>	<i>ℷ</i>	<i>ℷ</i>	<i>ℷ</i>	<code>\mitPi</code>	mathematical italic capital pi
U+1D6F2	<i>ℸ</i>	<i>ℸ</i>	<i>ℸ</i>	<i>ℸ</i>	<i>ℸ</i>	<i>ℸ</i>	<i>ℸ</i>	<code>\mitRho</code>	mathematical italic capital rho
U+1D6F3	<i>ℹ</i>	<i>ℹ</i>	<i>ℹ</i>	<i>ℹ</i>	<i>ℹ</i>	<i>ℹ</i>	<i>ℹ</i>	<code>\mitvarTheta</code>	mathematical italic capital theta symbol
U+1D6F4	<i>℠</i>	<i>℠</i>	<i>℠</i>	<i>℠</i>	<i>℠</i>	<i>℠</i>	<i>℠</i>	<code>\mitSigma</code>	mathematical italic capital sigma
U+1D6F5	<i>™</i>	<i>™</i>	<i>™</i>	<i>™</i>	<i>™</i>	<i>™</i>	<i>™</i>	<code>\mitTau</code>	mathematical italic capital tau
U+1D6F6	<i>℣</i>	<i>℣</i>	<i>℣</i>	<i>℣</i>	<i>℣</i>	<i>℣</i>	<i>℣</i>	<code>\mitUpsilon</code>	mathematical italic capital upsilon
U+1D6F7	<i>ℤ</i>	<i>ℤ</i>	<i>ℤ</i>	<i>ℤ</i>	<i>ℤ</i>	<i>ℤ</i>	<i>ℤ</i>	<code>\mitPhi</code>	mathematical italic capital phi
U+1D6F8	<i>ℨ</i>	<i>ℨ</i>	<i>ℨ</i>	<i>ℨ</i>	<i>ℨ</i>	<i>ℨ</i>	<i>ℨ</i>	<code>\mitChi</code>	mathematical italic capital chi
U+1D6F9	<i>ℰ</i>	<i>ℰ</i>	<i>ℰ</i>	<i>ℰ</i>	<i>ℰ</i>	<i>ℰ</i>	<i>ℰ</i>	<code>\mitPsi</code>	mathematical italic capital psi
U+1D6FA	<i>℠</i>	<i>℠</i>	<i>℠</i>	<i>℠</i>	<i>℠</i>	<i>℠</i>	<i>℠</i>	<code>\mitOmega</code>	mathematical italic capital omega

### 15.1.6 Italic Greek, lowercase

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+1D6FC	<i>α</i>	<i>α</i>	<i>α</i>	<i>α</i>	<i>α</i>	<i>α</i>	<i>α</i>	<code>\mitalpha</code>	mathematical italic small alpha
U+1D6FD	<i>β</i>	<i>β</i>	<i>β</i>	<i>β</i>	<i>β</i>	<i>β</i>	<i>β</i>	<code>\mitbeta</code>	mathematical italic small beta
U+1D6FE	<i>γ</i>	<i>γ</i>	<i>γ</i>	<i>γ</i>	<i>γ</i>	<i>γ</i>	<i>γ</i>	<code>\mitgamma</code>	mathematical italic small gamma
U+1D6FF	<i>δ</i>	<i>δ</i>	<i>δ</i>	<i>δ</i>	<i>δ</i>	<i>δ</i>	<i>δ</i>	<code>\mitdelta</code>	mathematical italic small delta
U+1D700	<i>ε</i>	<i>ε</i>	<i>ε</i>	<i>ε</i>	<i>ε</i>	<i>ε</i>	<i>ε</i>	<code>\mitvarepsilon</code>	mathematical italic small varepsilon
U+1D701	<i>ζ</i>	<i>ζ</i>	<i>ζ</i>	<i>ζ</i>	<i>ζ</i>	<i>ζ</i>	<i>ζ</i>	<code>\mitzeta</code>	mathematical italic small zeta
U+1D702	<i>η</i>	<i>η</i>	<i>η</i>	<i>η</i>	<i>η</i>	<i>η</i>	<i>η</i>	<code>\miteta</code>	mathematical italic small eta

usv	C	M	Lu	K	Le	N	F	Macro	Description
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 up-silon
U+1D711	$\varphi$	$\varphi$	$\varphi$	$\varphi$	$\varphi$	$\varphi$	$\varphi$	<code>\mitvarphi</code>	mathematical italic small phi
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	$\kappa$	$\kappa$	$\kappa$	$\kappa$	$\kappa$	$\kappa$	$\kappa$	<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	C	M	Lu	K	Le	N	F	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

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

### 15.1.8 Script, Latin, lowercase

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+1D4B6	<i>𝒶</i>					<i>𝒶</i>		<code>\mscra</code>	mathematical script small a
U+1D4B7	<i>𝒷</i>					<i>𝒷</i>		<code>\mscrb</code>	mathematical script small b
U+1D4B8	<i>𝒸</i>					<i>𝒸</i>		<code>\mscrc</code>	mathematical script small c
U+1D4B9	<i>𝒹</i>					<i>𝒹</i>		<code>\mscrd</code>	mathematical script small d
U+1D4BB	<i>𝒻</i>					<i>𝒻</i>		<code>\mscrf</code>	mathematical script small f
U+1D4BD	<i>𝒽</i>					<i>𝒽</i>		<code>\mscrh</code>	mathematical script small h
U+1D4BE	<i>𝒾</i>					<i>𝒾</i>		<code>\mscri</code>	mathematical script small i
U+1D4BF	<i>𝒿</i>					<i>𝒿</i>		<code>\mscrj</code>	mathematical script small j
U+1D4C0	<i>𝓀</i>					<i>𝓀</i>		<code>\mscrk</code>	mathematical script small k
U+1D4C1	<i>𝓁</i>					<i>𝓁</i>		<code>\mscrl</code>	mathematical script small l
U+1D4C2	<i>𝓂</i>					<i>𝓂</i>		<code>\mscrm</code>	mathematical script small m
U+1D4C3	<i>𝓃</i>					<i>𝓃</i>		<code>\mscrn</code>	mathematical script small n
U+1D4C5	<i>𝓅</i>					<i>𝓅</i>		<code>\mscrp</code>	mathematical script small p
U+1D4C6	<i>𝓆</i>					<i>𝓆</i>		<code>\mscrq</code>	mathematical script small q

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+1D4C7	<i>r</i>					<i>r</i>		<code>\mscrr</code>	mathematical script small r
U+1D4C8	<i>s</i>					<i>s</i>		<code>\mscrs</code>	mathematical script small s
U+1D4C9	<i>t</i>					<i>t</i>		<code>\mscrt</code>	mathematical script small t
U+1D4CA	<i>u</i>					<i>u</i>		<code>\mscru</code>	mathematical script small u
U+1D4CB	<i>v</i>					<i>v</i>		<code>\mscrv</code>	mathematical script small v
U+1D4CC	<i>w</i>					<i>w</i>		<code>\mscrw</code>	mathematical script small w
U+1D4CD	<i>x</i>					<i>x</i>		<code>\mscrx</code>	mathematical script small x
U+1D4CE	<i>y</i>					<i>y</i>		<code>\mscry</code>	mathematical script small y
U+1D4CF	<i>z</i>					<i>z</i>		<code>\mscrz</code>	mathematical script small z

### 15.1.9 Fraktur, Latin, uppercase

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

usv	C	M	Lu	K	Le	N	F	Macro	Description
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### 15.1.10 Fraktur, Latin, lowercase

usv	C	M	Lu	K	Le	N	F	Macro	Description
U+1D51E	<b>a</b>	<b>a</b>	<b>a</b>	<b>a</b>	<b>a</b>	<b>a</b>		<code>\mfraka</code>	mathematical fraktur small a
U+1D51F	<b>b</b>	<b>b</b>	<b>b</b>	<b>b</b>	<b>b</b>	<b>b</b>		<code>\mfrakb</code>	mathematical fraktur small b
U+1D520	<b>c</b>	<b>c</b>	<b>c</b>	<b>c</b>	<b>c</b>	<b>c</b>		<code>\mfrakc</code>	mathematical fraktur small c
U+1D521	<b>d</b>	<b>d</b>	<b>d</b>	<b>d</b>	<b>d</b>	<b>d</b>		<code>\mfrakd</code>	mathematical fraktur small d
U+1D522	<b>e</b>	<b>e</b>	<b>e</b>	<b>e</b>	<b>e</b>	<b>e</b>		<code>\mfrage</code>	mathematical fraktur small e
U+1D523	<b>f</b>	<b>f</b>	<b>f</b>	<b>f</b>	<b>f</b>	<b>f</b>		<code>\mfrakf</code>	mathematical fraktur small f
U+1D524	<b>g</b>	<b>g</b>	<b>g</b>	<b>g</b>	<b>g</b>	<b>g</b>		<code>\mfrakg</code>	mathematical fraktur small g
U+1D525	<b>h</b>	<b>h</b>	<b>h</b>	<b>h</b>	<b>h</b>	<b>h</b>		<code>\mfrakh</code>	mathematical fraktur small h
U+1D526	<b>i</b>	<b>i</b>	<b>i</b>	<b>i</b>	<b>i</b>	<b>i</b>		<code>\mfraki</code>	mathematical fraktur small i
U+1D527	<b>j</b>	<b>j</b>	<b>j</b>	<b>j</b>	<b>j</b>	<b>j</b>		<code>\mfrakj</code>	mathematical fraktur small j
U+1D528	<b>k</b>	<b>k</b>	<b>k</b>	<b>k</b>	<b>k</b>	<b>k</b>		<code>\mfrakk</code>	mathematical fraktur small k
U+1D529	<b>l</b>	<b>l</b>	<b>l</b>	<b>l</b>	<b>l</b>	<b>l</b>		<code>\mfrakl</code>	mathematical fraktur small l
U+1D52A	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>		<code>\mfrakm</code>	mathematical fraktur small m
U+1D52B	<b>n</b>	<b>n</b>	<b>n</b>	<b>n</b>	<b>n</b>	<b>n</b>		<code>\mfrakn</code>	mathematical fraktur small n
U+1D52C	<b>o</b>	<b>o</b>	<b>o</b>	<b>o</b>	<b>o</b>	<b>o</b>		<code>\mfrako</code>	mathematical fraktur small o
U+1D52D	<b>p</b>	<b>p</b>	<b>p</b>	<b>p</b>	<b>p</b>	<b>p</b>		<code>\mfrakp</code>	mathematical fraktur small p
U+1D52E	<b>q</b>	<b>q</b>	<b>q</b>	<b>q</b>	<b>q</b>	<b>q</b>		<code>\mfrakq</code>	mathematical fraktur small q
U+1D52F	<b>r</b>	<b>r</b>	<b>r</b>	<b>r</b>	<b>r</b>	<b>r</b>		<code>\mfrakr</code>	mathematical fraktur small r
U+1D530	<b>s</b>	<b>s</b>	<b>s</b>	<b>s</b>	<b>s</b>	<b>s</b>		<code>\mfraks</code>	mathematical fraktur small s
U+1D531	<b>t</b>	<b>t</b>	<b>t</b>	<b>t</b>	<b>t</b>	<b>t</b>		<code>\mfrakt</code>	mathematical fraktur small t
U+1D532	<b>u</b>	<b>u</b>	<b>u</b>	<b>u</b>	<b>u</b>	<b>u</b>		<code>\mfraku</code>	mathematical fraktur small u
U+1D533	<b>v</b>	<b>v</b>	<b>v</b>	<b>v</b>	<b>v</b>	<b>v</b>		<code>\mfrakv</code>	mathematical fraktur small v
U+1D534	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>		<code>\mfrakw</code>	mathematical fraktur small w
U+1D535	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>		<code>\mfrakx</code>	mathematical fraktur small x
U+1D536	<b>y</b>	<b>y</b>	<b>y</b>	<b>y</b>	<b>y</b>	<b>y</b>		<code>\mfraky</code>	mathematical fraktur small y
U+1D537	<b>z</b>	<b>z</b>	<b>z</b>	<b>z</b>	<b>z</b>	<b>z</b>		<code>\mfrakz</code>	mathematical fraktur small z

### 15.1.11 Blackboard, Latin, uppercase

usv	C	M	Lu	K	Le	N	F	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	𝐇	𝐇	𝐇	𝐇	𝐇	𝐇	𝐇	\BbbH	mathematical double-struck capital h
U+1D541	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
U+1D546	𝐎	𝐎	𝐎	𝐎	𝐎	𝐎	𝐎	\BbbO	mathematical double-struck capital o
U+1D54A	𝐒	𝐒	𝐒	𝐒	𝐒	𝐒	𝐒	\BbbS	mathematical double-struck capital s
U+1D54B	𝐓	𝐓	𝐓	𝐓	𝐓	𝐓	𝐓	\BbbT	mathematical double-struck capital t
U+1D54C	𝐔	𝐔	𝐔	𝐔	𝐔	𝐔	𝐔	\BbbU	mathematical double-struck capital u
U+1D54D	𝐕	𝐕	𝐕	𝐕	𝐕	𝐕	𝐕	\BbbV	mathematical double-struck capital v
U+1D54E	𝐖	𝐖	𝐖	𝐖	𝐖	𝐖	𝐖	\BbbW	mathematical double-struck capital w
U+1D54F	𝐗	𝐗	𝐗	𝐗	𝐗	𝐗	𝐗	\BbbX	mathematical double-struck capital x
U+1D550	𝐘	𝐘	𝐘	𝐘	𝐘	𝐘	𝐘	\BbbY	mathematical double-struck capital y

### 15.1.12 Blackboard, Latin, lowercase

usv	C	M	Lu	K	Le	N	F	Macro	Description
U+1D552	𝐚	𝐚			𝐚	𝐚	𝐚	\Bbba	mathematical double-struck small a
U+1D553	𝐛	𝐛			𝐛	𝐛	𝐛	\Bbbb	mathematical double-struck small b
U+1D554	𝐜	𝐜			𝐜	𝐜	𝐜	\Bbbc	mathematical double-struck small c



usv	C	M	Lu	K	Le	N	F	Macro	Description
U+1D555								\Bbbd	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
U+1D560								\Bbbo	mathematical double-struck small o
U+1D561								\Bbbp	mathematical double-struck small p
U+1D562								\Bbbq	mathematical double-struck small q
U+1D563								\Bbbr	mathematical double-struck small r
U+1D564								\Bbbs	mathematical double-struck small s
U+1D565								\Bbbt	mathematical double-struck small t
U+1D566								\Bbbu	mathematical double-struck small u
U+1D567								\Bbbv	mathematical double-struck small v
U+1D568								\Bbbw	mathematical double-struck small w
U+1D569								\Bbbx	mathematical double-struck small x
U+1D56A								\Bbby	mathematical double-struck small y
U+1D56B								\Bbbz	mathematical double-struck small z

### 15.1.13 Sans serif, Latin, uppercase

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+1D5A0	A	A	A	A	A	A		\msansA	mathematical sans-serif capital a
U+1D5A1	B	B	B	B	B	B		\msansB	mathematical sans-serif capital b
U+1D5A2	C	C	C	C	C	C		\msansC	mathematical sans-serif capital c
U+1D5A3	D	D	D	D	D	D		\msansD	mathematical sans-serif capital d
U+1D5A4	E	E	E	E	E	E		\msansE	mathematical sans-serif capital e
U+1D5A5	F	F	F	F	F	F		\msansF	mathematical sans-serif capital f
U+1D5A6	G	G	G	G	G	G		\msansG	mathematical sans-serif capital g
U+1D5A7	H	H	H	H	H	H		\msansH	mathematical sans-serif capital h
U+1D5A8	I	I	I	I	I	I		\msansI	mathematical sans-serif capital i
U+1D5A9	J	J	J	J	J	J		\msansJ	mathematical sans-serif capital j
U+1D5AA	K	K	K	K	K	K		\msansK	mathematical sans-serif capital k
U+1D5AB	L	L	L	L	L	L		\msansL	mathematical sans-serif capital l
U+1D5AC	M	M	M	M	M	M		\msansM	mathematical sans-serif capital m
U+1D5AD	N	N	N	N	N	N		\msansN	mathematical sans-serif capital n
U+1D5AE	O	O	O	O	O	O		\msansO	mathematical sans-serif capital o
U+1D5AF	P	P	P	P	P	P		\msansP	mathematical sans-serif capital p
U+1D5B0	Q	Q	Q	Q	Q	Q		\msansQ	mathematical sans-serif capital q
U+1D5B1	R	R	R	R	R	R		\msansR	mathematical sans-serif capital r
U+1D5B2	S	S	S	S	S	S		\msansS	mathematical sans-serif capital s
U+1D5B3	T	T	T	T	T	T		\msansT	mathematical sans-serif capital t
U+1D5B4	U	U	U	U	U	U		\msansU	mathematical sans-serif capital u
U+1D5B5	V	V	V	V	V	V		\msansV	mathematical sans-serif capital v
U+1D5B6	W	W	W	W	W	W		\msansW	mathematical sans-serif capital w
U+1D5B7	X	X	X	X	X	X		\msansX	mathematical sans-serif capital x
U+1D5B8	Y	Y	Y	Y	Y	Y		\msansY	mathematical sans-serif capital y
U+1D5B9	Z	Z	Z	Z	Z	Z		\msansZ	mathematical sans-serif capital z

### 15.1.14 Sans serif, Latin, lowercase

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

### 15.1.15 Italic sans serif, Latin, uppercase

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+1D608	A	A	A	A	A	A		\mitsansA	mathematical sans-serif italic capital a

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

### 15.1.16 Italic sans serif, Latin, lowercase

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+1D622	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>		\mitsansa	mathematical sans-serif italic small a
U+1D623	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>		\mitsansb	mathematical sans-serif italic small b
U+1D624	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>		\mitsansc	mathematical sans-serif italic small c
U+1D625	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>		\mitsansd	mathematical sans-serif italic small d
U+1D626	<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>		\mitsanse	mathematical sans-serif italic small e
U+1D627	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>		\mitsansf	mathematical sans-serif italic small f
U+1D628	<i>g</i>	<i>g</i>	<i>g</i>	<i>g</i>	<i>g</i>	<i>g</i>		\mitsansg	mathematical sans-serif italic small g
U+1D629	<i>h</i>	<i>h</i>	<i>h</i>	<i>h</i>	<i>h</i>	<i>h</i>		\mitsansh	mathematical sans-serif italic small h
U+1D62A	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>		\mitsansi	mathematical sans-serif italic small i
U+1D62B	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>		\mitsansj	mathematical sans-serif italic small j
U+1D62C	<i>k</i>	<i>k</i>	<i>k</i>	<i>k</i>	<i>k</i>	<i>k</i>		\mitsansk	mathematical sans-serif italic small k
U+1D62D	<i>l</i>	<i>l</i>	<i>l</i>	<i>l</i>	<i>l</i>	<i>l</i>		\mitsansl	mathematical sans-serif italic small l
U+1D62E	<i>m</i>	<i>m</i>	<i>m</i>	<i>m</i>	<i>m</i>	<i>m</i>		\mitsansm	mathematical sans-serif italic small m
U+1D62F	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>	<i>n</i>		\mitsansn	mathematical sans-serif italic small n
U+1D630	<i>o</i>	<i>o</i>	<i>o</i>	<i>o</i>	<i>o</i>	<i>o</i>		\mitsanso	mathematical sans-serif italic small o
U+1D631	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>	<i>p</i>		\mitsansp	mathematical sans-serif italic small p
U+1D632	<i>q</i>	<i>q</i>	<i>q</i>	<i>q</i>	<i>q</i>	<i>q</i>		\mitsansq	mathematical sans-serif italic small q
U+1D633	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>	<i>r</i>		\mitsansr	mathematical sans-serif italic small r
U+1D634	<i>s</i>	<i>s</i>	<i>s</i>	<i>s</i>	<i>s</i>	<i>s</i>		\mitsanss	mathematical sans-serif italic small s
U+1D635	<i>t</i>	<i>t</i>	<i>t</i>	<i>t</i>	<i>t</i>	<i>t</i>		\mitsanst	mathematical sans-serif italic small t
U+1D636	<i>u</i>	<i>u</i>	<i>u</i>	<i>u</i>	<i>u</i>	<i>u</i>		\mitsansu	mathematical sans-serif italic small u
U+1D637	<i>v</i>	<i>v</i>	<i>v</i>	<i>v</i>	<i>v</i>	<i>v</i>		\mitsansv	mathematical sans-serif italic small v
U+1D638	<i>w</i>	<i>w</i>	<i>w</i>	<i>w</i>	<i>w</i>	<i>w</i>		\mitsansw	mathematical sans-serif italic small w
U+1D639	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>	<i>x</i>		\mitsansx	mathematical sans-serif italic small x

usv	C	M	Lu	K	Le	N	F	Macro	Description
U+1D63A	<i>ŷ</i>	<i>Ÿ</i>	<i>ŷ</i>	<i>ŷ</i>	<i>ŷ</i>	<i>ŷ</i>		<code>\mitsansy</code>	mathematical sans-serif italic small y
U+1D63B	<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>		<code>\mitsansz</code>	mathematical sans-serif italic small z

### 15.1.17 Typewriter, Latin, uppercase

usv	C	M	Lu	K	Le	N	F	Macro	Description
U+1D670	A	A	A	A	A	A	A	<code>\mttA</code>	mathematical monospace capital a
U+1D671	B	B	B	B	B	B	B	<code>\mttB</code>	mathematical monospace capital b
U+1D672	C	C	C	C	C	C	C	<code>\mttC</code>	mathematical monospace capital c
U+1D673	D	D	D	D	D	D	D	<code>\mttD</code>	mathematical monospace capital d
U+1D674	E	E	E	E	E	E	E	<code>\mttE</code>	mathematical monospace capital e
U+1D675	F	F	F	F	F	F	F	<code>\mttF</code>	mathematical monospace capital f
U+1D676	G	G	G	G	G	G	G	<code>\mttG</code>	mathematical monospace capital g
U+1D677	H	H	H	H	H	H	H	<code>\mttH</code>	mathematical monospace capital h
U+1D678	I	I	I	I	I	I	I	<code>\mttI</code>	mathematical monospace capital i
U+1D679	J	J	J	J	J	J	J	<code>\mttJ</code>	mathematical monospace capital j
U+1D67A	K	K	K	K	K	K	K	<code>\mttK</code>	mathematical monospace capital k
U+1D67B	L	L	L	L	L	L	L	<code>\mttL</code>	mathematical monospace capital l
U+1D67C	M	M	M	M	M	M	M	<code>\mttM</code>	mathematical monospace capital m
U+1D67D	N	N	N	N	N	N	N	<code>\mttN</code>	mathematical monospace capital n
U+1D67E	O	O	O	O	O	O	O	<code>\mttO</code>	mathematical monospace capital o
U+1D67F	P	P	P	P	P	P	P	<code>\mttP</code>	mathematical monospace capital p
U+1D680	Q	Q	Q	Q	Q	Q	Q	<code>\mttQ</code>	mathematical monospace capital q
U+1D681	R	R	R	R	R	R	R	<code>\mttR</code>	mathematical monospace capital r
U+1D682	S	S	S	S	S	S	S	<code>\mttS</code>	mathematical monospace capital s

usv	C	M	Lu	K	Le	N	F	Macro	Description
U+1D683	T	T	T	T	T	T	T	\mttT	mathematical monospace capital t
U+1D684	U	U	U	U	U	U	U	\mttU	mathematical monospace capital u
U+1D685	V	V	V	V	V	V	V	\mttV	mathematical monospace capital v
U+1D686	W	W	W	W	W	W	W	\mttW	mathematical monospace capital w
U+1D687	X	X	X	X	X	X	X	\mttX	mathematical monospace capital x
U+1D688	Y	Y	Y	Y	Y	Y	Y	\mttY	mathematical monospace capital y
U+1D689	Z	Z	Z	Z	Z	Z	Z	\mttZ	mathematical monospace capital z

### 15.1.18 Typewriter, Latin, lowercase

usv	C	M	Lu	K	Le	N	F	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

usv	C	M	Lu	K	Le	N	F	Macro	Description
U+1D698	o	o	o	o	o	o	o	\mtto	mathematical monospace small o
U+1D699	p	p	p	p	p	p	p	\mttp	mathematical monospace small p
U+1D69A	q	q	q	q	q	q	q	\mttq	mathematical monospace small q
U+1D69B	r	r	r	r	r	r	r	\mttr	mathematical monospace small r
U+1D69C	s	s	s	s	s	s	s	\mtts	mathematical monospace small s
U+1D69D	t	t	t	t	t	t	t	\mttt	mathematical monospace small t
U+1D69E	u	u	u	u	u	u	u	\mttu	mathematical monospace small u
U+1D69F	v	v	v	v	v	v	v	\mttv	mathematical monospace small v
U+1D6A0	w	w	w	w	w	w	w	\mttw	mathematical monospace small w
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	C	M	Lu	K	Le	N	F	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



USV	C	M	Lu	K	Le	N	F	Macro	Description
U+1D40D	<b>N</b>	<b>N</b>	<b>N</b>	<b>N</b>	<b>N</b>	<b>N</b>	<b>N</b>	<code>\mbfN</code>	mathematical bold capital n
U+1D40E	<b>O</b>	<b>O</b>	<b>O</b>	<b>O</b>	<b>O</b>	<b>O</b>	<b>O</b>	<code>\mbfO</code>	mathematical bold capital o
U+1D40F	<b>P</b>	<b>P</b>	<b>P</b>	<b>P</b>	<b>P</b>	<b>P</b>	<b>P</b>	<code>\mbfP</code>	mathematical bold capital p
U+1D410	<b>Q</b>	<b>Q</b>	<b>Q</b>	<b>Q</b>	<b>Q</b>	<b>Q</b>	<b>Q</b>	<code>\mbfQ</code>	mathematical bold capital q
U+1D411	<b>R</b>	<b>R</b>	<b>R</b>	<b>R</b>	<b>R</b>	<b>R</b>	<b>R</b>	<code>\mbfR</code>	mathematical bold capital r
U+1D412	<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>	<b>S</b>	<code>\mbfS</code>	mathematical bold capital s
U+1D413	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>	<b>T</b>	<code>\mbfT</code>	mathematical bold capital t
U+1D414	<b>U</b>	<b>U</b>	<b>U</b>	<b>U</b>	<b>U</b>	<b>U</b>	<b>U</b>	<code>\mbfU</code>	mathematical bold capital u
U+1D415	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	<code>\mbfV</code>	mathematical bold capital v
U+1D416	<b>W</b>	<b>W</b>	<b>W</b>	<b>W</b>	<b>W</b>	<b>W</b>	<b>W</b>	<code>\mbfW</code>	mathematical bold capital w
U+1D417	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<code>\mbfX</code>	mathematical bold capital x
U+1D418	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>	<b>Y</b>	<code>\mbfY</code>	mathematical bold capital y
U+1D419	<b>Z</b>	<b>Z</b>	<b>Z</b>	<b>Z</b>	<b>Z</b>	<b>Z</b>	<b>Z</b>	<code>\mbfZ</code>	mathematical bold capital z

### 15.2.2 Bold, Latin, lowercase

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

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+1D42B	<b>𝐫</b>	<b>𝐫</b>	<b>𝐫</b>	<b>𝐫</b>	<b>𝐫</b>	<b>𝐫</b>	<b>𝐫</b>	<code>\mbfr</code>	mathematical bold small r
U+1D42C	<b>𝐬</b>	<b>𝐬</b>	<b>𝐬</b>	<b>𝐬</b>	<b>𝐬</b>	<b>𝐬</b>	<b>𝐬</b>	<code>\mbfs</code>	mathematical bold small s
U+1D42D	<b>𝐭</b>	<b>𝐭</b>	<b>𝐭</b>	<b>𝐭</b>	<b>𝐭</b>	<b>𝐭</b>	<b>𝐭</b>	<code>\mbft</code>	mathematical bold small t
U+1D42E	<b>𝐮</b>	<b>𝐮</b>	<b>𝐮</b>	<b>𝐮</b>	<b>𝐮</b>	<b>𝐮</b>	<b>𝐮</b>	<code>\mbfu</code>	mathematical bold small u
U+1D42F	<b>𝐯</b>	<b>𝐯</b>	<b>𝐯</b>	<b>𝐯</b>	<b>𝐯</b>	<b>𝐯</b>	<b>𝐯</b>	<code>\mbfv</code>	mathematical bold small v
U+1D430	<b>𝐰</b>	<b>𝐰</b>	<b>𝐰</b>	<b>𝐰</b>	<b>𝐰</b>	<b>𝐰</b>	<b>𝐰</b>	<code>\mbfw</code>	mathematical bold small w
U+1D431	<b>𝐱</b>	<b>𝐱</b>	<b>𝐱</b>	<b>𝐱</b>	<b>𝐱</b>	<b>𝐱</b>	<b>𝐱</b>	<code>\mbfx</code>	mathematical bold small x
U+1D432	<b>𝐲</b>	<b>𝐲</b>	<b>𝐲</b>	<b>𝐲</b>	<b>𝐲</b>	<b>𝐲</b>	<b>𝐲</b>	<code>\mbfy</code>	mathematical bold small y
U+1D433	<b>𝐳</b>	<b>𝐳</b>	<b>𝐳</b>	<b>𝐳</b>	<b>𝐳</b>	<b>𝐳</b>	<b>𝐳</b>	<code>\mbfz</code>	mathematical bold small z

### 15.2.3 Bold Greek, uppercase

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+1D6A8	<b>𝐀</b>	<b>𝐀</b>	<b>𝐀</b>	<b>𝐀</b>	<b>𝐀</b>	<b>𝐀</b>	<b>𝐀</b>	<code>\mbfAlpha</code>	mathematical bold capital alpha
U+1D6A9	<b>𝐁</b>	<b>𝐁</b>	<b>𝐁</b>	<b>𝐁</b>	<b>𝐁</b>	<b>𝐁</b>	<b>𝐁</b>	<code>\mbfBeta</code>	mathematical bold capital beta
U+1D6AA	<b>𝐆</b>	<b>𝐆</b>	<b>𝐆</b>	<b>𝐆</b>	<b>𝐆</b>	<b>𝐆</b>	<b>𝐆</b>	<code>\mbfGamma</code>	mathematical bold capital gamma
U+1D6AB	<b>𝐃</b>	<b>𝐃</b>	<b>𝐃</b>	<b>𝐃</b>	<b>𝐃</b>	<b>𝐃</b>	<b>𝐃</b>	<code>\mbfDelta</code>	mathematical bold capital delta
U+1D6AC	<b>𝐄</b>	<b>𝐄</b>	<b>𝐄</b>	<b>𝐄</b>	<b>𝐄</b>	<b>𝐄</b>	<b>𝐄</b>	<code>\mbfEpsilon</code>	mathematical bold capital epsilon
U+1D6AD	<b>𝐙</b>	<b>𝐙</b>	<b>𝐙</b>	<b>𝐙</b>	<b>𝐙</b>	<b>𝐙</b>	<b>𝐙</b>	<code>\mbfZeta</code>	mathematical bold capital zeta
U+1D6AE	<b>𝐇</b>	<b>𝐇</b>	<b>𝐇</b>	<b>𝐇</b>	<b>𝐇</b>	<b>𝐇</b>	<b>𝐇</b>	<code>\mbfEta</code>	mathematical bold capital eta
U+1D6AF	<b>𝐓</b>	<b>𝐓</b>	<b>𝐓</b>	<b>𝐓</b>	<b>𝐓</b>	<b>𝐓</b>	<b>𝐓</b>	<code>\mbfTheta</code>	mathematical bold capital theta
U+1D6B0	<b>𝐈</b>	<b>𝐈</b>	<b>𝐈</b>	<b>𝐈</b>	<b>𝐈</b>	<b>𝐈</b>	<b>𝐈</b>	<code>\mbfIota</code>	mathematical bold capital iota
U+1D6B1	<b>𝐊</b>	<b>𝐊</b>	<b>𝐊</b>	<b>𝐊</b>	<b>𝐊</b>	<b>𝐊</b>	<b>𝐊</b>	<code>\mbfKappa</code>	mathematical bold capital kappa
U+1D6B2	<b>𝐋</b>	<b>𝐋</b>	<b>𝐋</b>	<b>𝐋</b>	<b>𝐋</b>	<b>𝐋</b>	<b>𝐋</b>	<code>\mbfLambda</code>	mathematical bold capital lambda
U+1D6B3	<b>𝐌</b>	<b>𝐌</b>	<b>𝐌</b>	<b>𝐌</b>	<b>𝐌</b>	<b>𝐌</b>	<b>𝐌</b>	<code>\mbfMu</code>	mathematical bold capital mu
U+1D6B4	<b>𝐍</b>	<b>𝐍</b>	<b>𝐍</b>	<b>𝐍</b>	<b>𝐍</b>	<b>𝐍</b>	<b>𝐍</b>	<code>\mbfNu</code>	mathematical bold capital nu
U+1D6B5	<b>𝐗</b>	<b>𝐗</b>	<b>𝐗</b>	<b>𝐗</b>	<b>𝐗</b>	<b>𝐗</b>	<b>𝐗</b>	<code>\mbfXi</code>	mathematical bold capital xi
U+1D6B6	<b>𝐎</b>	<b>𝐎</b>	<b>𝐎</b>	<b>𝐎</b>	<b>𝐎</b>	<b>𝐎</b>	<b>𝐎</b>	<code>\mbfOmicron</code>	mathematical bold capital omicron
U+1D6B7	<b>𝐏</b>	<b>𝐏</b>	<b>𝐏</b>	<b>𝐏</b>	<b>𝐏</b>	<b>𝐏</b>	<b>𝐏</b>	<code>\mbfPi</code>	mathematical bold capital pi
U+1D6B8	<b>𝐑</b>	<b>𝐑</b>	<b>𝐑</b>	<b>𝐑</b>	<b>𝐑</b>	<b>𝐑</b>	<b>𝐑</b>	<code>\mbfRho</code>	mathematical bold capital rho
U+1D6B9	<b>𝐓</b>	<b>𝐓</b>	<b>𝐓</b>	<b>𝐓</b>	<b>𝐓</b>	<b>𝐓</b>	<b>𝐓</b>	<code>\mbfvarTheta</code>	mathematical bold capital theta symbol

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+1D6BA	Σ	Σ	Σ	Σ	Σ	Σ	Σ	\mbfSigma	mathematical bold capital sigma
U+1D6BB	Τ	Τ	Τ	Τ	Τ	Τ	Τ	\mbfTau	mathematical bold capital tau
U+1D6BC	Υ	Υ	Υ	Υ	Υ	Υ	Υ	\mbfUpsilon	mathematical bold capital upsilon
U+1D6BD	Φ	Φ	Φ	Φ	Φ	Φ	Φ	\mbfPhi	mathematical bold capital phi
U+1D6BE	Χ	Χ	Χ	Χ	Χ	Χ	Χ	\mbfChi	mathematical bold capital chi
U+1D6BF	Ψ	Ψ	Ψ	Ψ	Ψ	Ψ	Ψ	\mbfPsi	mathematical bold capital psi
U+1D6C0	Ω	Ω	Ω	Ω	Ω	Ω	Ω	\mbfOmega	mathematical bold capital omega

### 15.2.4 Bold Greek, lowercase

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+1D6C2	α	α	α	α	α	α	α	\mbfalpha	mathematical bold small alpha
U+1D6C3	β	β	β	β	β	β	β	\mbfbeta	mathematical bold small beta
U+1D6C4	γ	γ	γ	γ	γ	γ	γ	\mbfgamma	mathematical bold small gamma
U+1D6C5	δ	δ	δ	δ	δ	δ	δ	\mbfdelta	mathematical bold small delta
U+1D6C6	ε	ε	ε	ε	ε	ε	ε	\mbfvarepsilon	mathematical bold small varepsilon
U+1D6C7	ζ	ζ	ζ	ζ	ζ	ζ	ζ	\mbfzeta	mathematical bold small zeta
U+1D6C8	η	η	η	η	η	η	η	\mbfeta	mathematical bold small eta
U+1D6C9	θ	θ	θ	θ	θ	θ	θ	\mbftheta	mathematical bold small theta
U+1D6CA	ι	ι	ι	ι	ι	ι	ι	\mbfiota	mathematical bold small iota
U+1D6CB	κ	κ	κ	κ	κ	κ	κ	\mbfkappa	mathematical bold small kappa
U+1D6CC	λ	λ	λ	λ	λ	λ	λ	\mbflambda	mathematical bold small lambda
U+1D6CD	μ	μ	μ	μ	μ	μ	μ	\mbfmu	mathematical bold small mu
U+1D6CE	ν	ν	ν	ν	ν	ν	ν	\mbfnu	mathematical bold small nu
U+1D6CF	ξ	ξ	ξ	ξ	ξ	ξ	ξ	\mbfxi	mathematical bold small xi
U+1D6D0	ο	ο	ο	ο	ο	ο	ο	\mbfomicron	mathematical bold small omicron
U+1D6D1	π	π	π	π	π	π	π	\mbfpi	mathematical bold small pi
U+1D6D2	ρ	ρ	ρ	ρ	ρ	ρ	ρ	\mbfrho	mathematical bold small rho
U+1D6D3	ς	ς	ς	ς	ς	ς	ς	\mbfvarsigma	mathematical bold small final sigma
U+1D6D4	σ	σ	σ	σ	σ	σ	σ	\mbfsigma	mathematical bold small sigma
U+1D6D5	τ	τ	τ	τ	τ	τ	τ	\mbftau	mathematical bold small tau

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+1D6D6	υ	ϐ	ϑ	ϒ	ϕ	ϙ	ϔ	\mbfupsilon	mathematical bold small up-silon
U+1D6D7	φ	ϑ	ϒ	ϕ	ϙ	ϔ	ϕ	\mbfvarphi	mathematical bold small phi
U+1D6D8	χ	ϒ	ϕ	ϙ	ϔ	ϕ	χ	\mbfchi	mathematical bold small chi
U+1D6D9	ψ	ϕ	ϙ	ϔ	ϕ	ψ	ψ	\mbfpsi	mathematical bold small psi
U+1D6DA	ω	ϑ	ϒ	ϕ	ϙ	ϔ	ω	\mbfomega	mathematical bold small omega
U+1D6DB	∂	ϑ	ϒ	ϕ	ϙ	ϔ	∂	\mbfpartial	mathematical bold partial differential
U+1D6DC	ε	ϑ	ϒ	ϕ	ϙ	ϔ	ε	\mbfepsilon	mathematical bold varepsilon symbol
U+1D6DD	θ	ϑ	ϒ	ϕ	ϙ	ϔ	θ	\mbfvartheta	mathematical bold theta symbol
U+1D6DE	κ	ϒ	ϕ	ϙ	ϔ	ϕ	κ	\mbfvarkappa	mathematical bold kappa symbol
U+1D6DF	φ	ϑ	ϒ	ϕ	ϙ	ϔ	φ	\mbfphi	mathematical bold phi symbol
U+1D6E0	ρ	ϑ	ϒ	ϕ	ϙ	ϔ	ρ	\mbfvarrho	mathematical bold rho symbol
U+1D6E1	π	ϑ	ϒ	ϕ	ϙ	ϔ	π	\mbfvarpi	mathematical bold pi symbol

### 15.2.5 Bold italic, Latin, uppercase

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+1D468	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	<i>A</i>	\mbfitA	mathematical bold italic capital a
U+1D469	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	<i>B</i>	\mbfitB	mathematical bold italic capital b
U+1D46A	<i>C</i>	<i>C</i>	<i>C</i>	<i>C</i>	<i>C</i>	<i>C</i>	<i>C</i>	\mbfitC	mathematical bold italic capital c
U+1D46B	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	\mbfitD	mathematical bold italic capital d
U+1D46C	<i>E</i>	<i>E</i>	<i>E</i>	<i>E</i>	<i>E</i>	<i>E</i>	<i>E</i>	\mbfitE	mathematical bold italic capital e
U+1D46D	<i>F</i>	<i>F</i>	<i>F</i>	<i>F</i>	<i>F</i>	<i>F</i>	<i>F</i>	\mbfitF	mathematical bold italic capital f
U+1D46E	<i>G</i>	<i>G</i>	<i>G</i>	<i>G</i>	<i>G</i>	<i>G</i>	<i>G</i>	\mbfitG	mathematical bold italic capital g
U+1D46F	<i>H</i>	<i>H</i>	<i>H</i>	<i>H</i>	<i>H</i>	<i>H</i>	<i>H</i>	\mbfitH	mathematical bold italic capital h
U+1D470	<i>I</i>	<i>I</i>	<i>I</i>	<i>I</i>	<i>I</i>	<i>I</i>	<i>I</i>	\mbfitI	mathematical bold italic capital i
U+1D471	<i>J</i>	<i>J</i>	<i>J</i>	<i>J</i>	<i>J</i>	<i>J</i>	<i>J</i>	\mbfitJ	mathematical bold italic capital j
U+1D472	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>	<i>K</i>	\mbfitK	mathematical bold italic capital k

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+1D473	<i>L</i>	<i>L</i>	<i>L</i>	<i>L</i>	<i>L</i>	<i>L</i>	<i>L</i>	<code>\mbfitL</code>	mathematical bold italic capital l
U+1D474	<i>M</i>	<i>M</i>	<i>M</i>	<i>M</i>	<i>M</i>	<i>M</i>	<i>M</i>	<code>\mbfitM</code>	mathematical bold italic capital m
U+1D475	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<i>N</i>	<code>\mbfitN</code>	mathematical bold italic capital n
U+1D476	<i>O</i>	<i>O</i>	<i>O</i>	<i>O</i>	<i>O</i>	<i>O</i>	<i>O</i>	<code>\mbfitO</code>	mathematical bold italic capital o
U+1D477	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<i>P</i>	<code>\mbfitP</code>	mathematical bold italic capital p
U+1D478	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<i>Q</i>	<code>\mbfitQ</code>	mathematical bold italic capital q
U+1D479	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<i>R</i>	<code>\mbfitR</code>	mathematical bold italic capital r
U+1D47A	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<code>\mbfitS</code>	mathematical bold italic capital s
U+1D47B	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<i>T</i>	<code>\mbfitT</code>	mathematical bold italic capital t
U+1D47C	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>	<i>U</i>	<code>\mbfitU</code>	mathematical bold italic capital u
U+1D47D	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<code>\mbfitV</code>	mathematical bold italic capital v
U+1D47E	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<code>\mbfitW</code>	mathematical bold italic capital w
U+1D47F	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<code>\mbfitX</code>	mathematical bold italic capital x
U+1D480	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<code>\mbfitY</code>	mathematical bold italic capital y
U+1D481	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<code>\mbfitZ</code>	mathematical bold italic capital z

### 15.2.6 Bold italic, Latin, lowercase

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+1D482	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<code>\mbfita</code>	mathematical bold italic small a
U+1D483	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<code>\mbfitb</code>	mathematical bold italic small b
U+1D484	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<code>\mbfitc</code>	mathematical bold italic small c
U+1D485	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>	<i>d</i>	<code>\mbfitd</code>	mathematical bold italic small d
U+1D486	<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>	<i>e</i>	<code>\mbfite</code>	mathematical bold italic small e
U+1D487	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>	<code>\mbfitf</code>	mathematical bold italic small f
U+1D488	<i>g</i>	<i>g</i>	<i>g</i>	<i>g</i>	<i>g</i>	<i>g</i>	<i>g</i>	<code>\mbfitg</code>	mathematical bold italic small g
U+1D489	<i>h</i>	<i>h</i>	<i>h</i>	<i>h</i>	<i>h</i>	<i>h</i>	<i>h</i>	<code>\mbfith</code>	mathematical bold italic small h
U+1D48A	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>	<i>i</i>	<code>\mbfiti</code>	mathematical bold italic small i
U+1D48B	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>	<i>j</i>	<code>\mbfitj</code>	mathematical bold italic small j

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+1D48C	<i><b>k</b></i>	<i><b>k</b></i>	<i><b>k</b></i>	<i><b>k</b></i>	<i><b>k</b></i>	<i><b>k</b></i>	<i><b>k</b></i>	<code>\mbfitk</code>	mathematical bold italic small k
U+1D48D	<i><b>l</b></i>	<i><b>l</b></i>	<i><b>l</b></i>	<i><b>l</b></i>	<i><b>l</b></i>	<i><b>l</b></i>	<i><b>l</b></i>	<code>\mbfitl</code>	mathematical bold italic small l
U+1D48E	<i><b>m</b></i>	<i><b>m</b></i>	<i><b>m</b></i>	<i><b>m</b></i>	<i><b>m</b></i>	<i><b>m</b></i>	<i><b>m</b></i>	<code>\mbfitm</code>	mathematical bold italic small m
U+1D48F	<i><b>n</b></i>	<i><b>n</b></i>	<i><b>n</b></i>	<i><b>n</b></i>	<i><b>n</b></i>	<i><b>n</b></i>	<i><b>n</b></i>	<code>\mbfitn</code>	mathematical bold italic small n
U+1D490	<i><b>o</b></i>	<i><b>o</b></i>	<i><b>o</b></i>	<i><b>o</b></i>	<i><b>o</b></i>	<i><b>o</b></i>	<i><b>o</b></i>	<code>\mbfito</code>	mathematical bold italic small o
U+1D491	<i><b>p</b></i>	<i><b>p</b></i>	<i><b>p</b></i>	<i><b>p</b></i>	<i><b>p</b></i>	<i><b>p</b></i>	<i><b>p</b></i>	<code>\mbfitp</code>	mathematical bold italic small p
U+1D492	<i><b>q</b></i>	<i><b>q</b></i>	<i><b>q</b></i>	<i><b>q</b></i>	<i><b>q</b></i>	<i><b>q</b></i>	<i><b>q</b></i>	<code>\mbfitq</code>	mathematical bold italic small q
U+1D493	<i><b>r</b></i>	<i><b>r</b></i>	<i><b>r</b></i>	<i><b>r</b></i>	<i><b>r</b></i>	<i><b>r</b></i>	<i><b>r</b></i>	<code>\mbfitr</code>	mathematical bold italic small r
U+1D494	<i><b>s</b></i>	<i><b>s</b></i>	<i><b>s</b></i>	<i><b>s</b></i>	<i><b>s</b></i>	<i><b>s</b></i>	<i><b>s</b></i>	<code>\mbfits</code>	mathematical bold italic small s
U+1D495	<i><b>t</b></i>	<i><b>t</b></i>	<i><b>t</b></i>	<i><b>t</b></i>	<i><b>t</b></i>	<i><b>t</b></i>	<i><b>t</b></i>	<code>\mbfitt</code>	mathematical bold italic small t
U+1D496	<i><b>u</b></i>	<i><b>u</b></i>	<i><b>u</b></i>	<i><b>u</b></i>	<i><b>u</b></i>	<i><b>u</b></i>	<i><b>u</b></i>	<code>\mbfitu</code>	mathematical bold italic small u
U+1D497	<i><b>v</b></i>	<i><b>v</b></i>	<i><b>v</b></i>	<i><b>v</b></i>	<i><b>v</b></i>	<i><b>v</b></i>	<i><b>v</b></i>	<code>\mbfitv</code>	mathematical bold italic small v
U+1D498	<i><b>w</b></i>	<i><b>w</b></i>	<i><b>w</b></i>	<i><b>w</b></i>	<i><b>w</b></i>	<i><b>w</b></i>	<i><b>w</b></i>	<code>\mbfitw</code>	mathematical bold italic small w
U+1D499	<i><b>x</b></i>	<i><b>x</b></i>	<i><b>x</b></i>	<i><b>x</b></i>	<i><b>x</b></i>	<i><b>x</b></i>	<i><b>x</b></i>	<code>\mbfitx</code>	mathematical bold italic small x
U+1D49A	<i><b>y</b></i>	<i><b>y</b></i>	<i><b>y</b></i>	<i><b>y</b></i>	<i><b>y</b></i>	<i><b>y</b></i>	<i><b>y</b></i>	<code>\mbfity</code>	mathematical bold italic small y
U+1D49B	<i><b>z</b></i>	<i><b>z</b></i>	<i><b>z</b></i>	<i><b>z</b></i>	<i><b>z</b></i>	<i><b>z</b></i>	<i><b>z</b></i>	<code>\mbfitz</code>	mathematical bold italic small z

### 15.2.7 Bold italic Greek, uppercase

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+1D71C	<i><b>Α</b></i>	<i><b>Α</b></i>	<i><b>Α</b></i>	<i><b>Α</b></i>	<i><b>Α</b></i>	<i><b>Α</b></i>	<i><b>Α</b></i>	<code>\mbfitAlpha</code>	mathematical bold italic capital alpha
U+1D71D	<i><b>Β</b></i>	<i><b>Β</b></i>	<i><b>Β</b></i>	<i><b>Β</b></i>	<i><b>Β</b></i>	<i><b>Β</b></i>	<i><b>Β</b></i>	<code>\mbfitBeta</code>	mathematical bold italic capital beta
U+1D71E	<i><b>Γ</b></i>	<i><b>Γ</b></i>	<i><b>Γ</b></i>	<i><b>Γ</b></i>	<i><b>Γ</b></i>	<i><b>Γ</b></i>	<i><b>Γ</b></i>	<code>\mbfitGamma</code>	mathematical bold italic capital gamma
U+1D71F	<i><b>Δ</b></i>	<i><b>Δ</b></i>	<i><b>Δ</b></i>	<i><b>Δ</b></i>	<i><b>Δ</b></i>	<i><b>Δ</b></i>	<i><b>Δ</b></i>	<code>\mbfitDelta</code>	mathematical bold italic capital delta
U+1D720	<i><b>Ε</b></i>	<i><b>Ε</b></i>	<i><b>Ε</b></i>	<i><b>Ε</b></i>	<i><b>Ε</b></i>	<i><b>Ε</b></i>	<i><b>Ε</b></i>	<code>\mbfitEpsilon</code>	mathematical bold italic capital epsilon
U+1D721	<i><b>Ζ</b></i>	<i><b>Ζ</b></i>	<i><b>Ζ</b></i>	<i><b>Ζ</b></i>	<i><b>Ζ</b></i>	<i><b>Ζ</b></i>	<i><b>Ζ</b></i>	<code>\mbfitZeta</code>	mathematical bold italic capital zeta
U+1D722	<i><b>Η</b></i>	<i><b>Η</b></i>	<i><b>Η</b></i>	<i><b>Η</b></i>	<i><b>Η</b></i>	<i><b>Η</b></i>	<i><b>Η</b></i>	<code>\mbfitEta</code>	mathematical bold italic capital eta
U+1D723	<i><b>Θ</b></i>	<i><b>Θ</b></i>	<i><b>Θ</b></i>	<i><b>Θ</b></i>	<i><b>Θ</b></i>	<i><b>Θ</b></i>	<i><b>Θ</b></i>	<code>\mbfitTheta</code>	mathematical bold italic capital theta
U+1D724	<i><b>Ι</b></i>	<i><b>Ι</b></i>	<i><b>Ι</b></i>	<i><b>Ι</b></i>	<i><b>Ι</b></i>	<i><b>Ι</b></i>	<i><b>Ι</b></i>	<code>\mbfitIota</code>	mathematical bold italic capital iota

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+1D725	<i><b>Κ</b></i>	<i><b>κ</b></i>	<i><b>Κ</b></i>	<i><b>κ</b></i>	<i><b>Κ</b></i>	<i><b>κ</b></i>	<i><b>κ</b></i>	<code>\mbfitKappa</code>	mathematical bold italic capital kappa
U+1D726	<i><b>Λ</b></i>	<i><b>λ</b></i>	<i><b>Λ</b></i>	<i><b>λ</b></i>	<i><b>Λ</b></i>	<i><b>λ</b></i>	<i><b>λ</b></i>	<code>\mbfitLambda</code>	mathematical bold italic capital lambda
U+1D727	<i><b>Μ</b></i>	<i><b>μ</b></i>	<i><b>Μ</b></i>	<i><b>μ</b></i>	<i><b>Μ</b></i>	<i><b>μ</b></i>	<i><b>μ</b></i>	<code>\mbfitMu</code>	mathematical bold italic capital mu
U+1D728	<i><b>Ν</b></i>	<i><b>ν</b></i>	<i><b>Ν</b></i>	<i><b>ν</b></i>	<i><b>Ν</b></i>	<i><b>ν</b></i>	<i><b>ν</b></i>	<code>\mbfitNu</code>	mathematical bold italic capital nu
U+1D729	<i><b>Ξ</b></i>	<i><b>ξ</b></i>	<i><b>Ξ</b></i>	<i><b>ξ</b></i>	<i><b>Ξ</b></i>	<i><b>ξ</b></i>	<i><b>ξ</b></i>	<code>\mbfitXi</code>	mathematical bold italic capital xi
U+1D72A	<i><b>Ο</b></i>	<i><b>ο</b></i>	<i><b>Ο</b></i>	<i><b>ο</b></i>	<i><b>Ο</b></i>	<i><b>ο</b></i>	<i><b>ο</b></i>	<code>\mbfitOmicron</code>	mathematical bold italic capital omicron
U+1D72B	<i><b>Π</b></i>	<i><b>π</b></i>	<i><b>Π</b></i>	<i><b>π</b></i>	<i><b>Π</b></i>	<i><b>π</b></i>	<i><b>π</b></i>	<code>\mbfitPi</code>	mathematical bold italic capital pi
U+1D72C	<i><b>Ρ</b></i>	<i><b>ρ</b></i>	<i><b>Ρ</b></i>	<i><b>ρ</b></i>	<i><b>Ρ</b></i>	<i><b>ρ</b></i>	<i><b>ρ</b></i>	<code>\mbfitRho</code>	mathematical bold italic capital rho
U+1D72D	<i><b>Θ</b></i>	<i><b>θ</b></i>	<i><b>Θ</b></i>	<i><b>θ</b></i>	<i><b>Θ</b></i>	<i><b>θ</b></i>	<i><b>θ</b></i>	<code>\mbfitvarTheta</code>	mathematical bold italic capital theta symbol
U+1D72E	<i><b>Σ</b></i>	<i><b>σ</b></i>	<i><b>Σ</b></i>	<i><b>σ</b></i>	<i><b>Σ</b></i>	<i><b>σ</b></i>	<i><b>σ</b></i>	<code>\mbfitSigma</code>	mathematical bold italic capital sigma
U+1D72F	<i><b>Τ</b></i>	<i><b>τ</b></i>	<i><b>Τ</b></i>	<i><b>τ</b></i>	<i><b>Τ</b></i>	<i><b>τ</b></i>	<i><b>τ</b></i>	<code>\mbfitTau</code>	mathematical bold italic capital tau
U+1D730	<i><b>Υ</b></i>	<i><b>υ</b></i>	<i><b>Υ</b></i>	<i><b>υ</b></i>	<i><b>Υ</b></i>	<i><b>υ</b></i>	<i><b>υ</b></i>	<code>\mbfitUpsilon</code>	mathematical bold italic capital upsilon
U+1D731	<i><b>Φ</b></i>	<i><b>φ</b></i>	<i><b>Φ</b></i>	<i><b>φ</b></i>	<i><b>Φ</b></i>	<i><b>φ</b></i>	<i><b>φ</b></i>	<code>\mbfitPhi</code>	mathematical bold italic capital phi
U+1D732	<i><b>Χ</b></i>	<i><b>χ</b></i>	<i><b>Χ</b></i>	<i><b>χ</b></i>	<i><b>Χ</b></i>	<i><b>χ</b></i>	<i><b>χ</b></i>	<code>\mbfitChi</code>	mathematical bold italic capital chi
U+1D733	<i><b>Ψ</b></i>	<i><b>ψ</b></i>	<i><b>Ψ</b></i>	<i><b>ψ</b></i>	<i><b>Ψ</b></i>	<i><b>ψ</b></i>	<i><b>ψ</b></i>	<code>\mbfitPsi</code>	mathematical bold italic capital psi
U+1D734	<i><b>Ω</b></i>	<i><b>ω</b></i>	<i><b>Ω</b></i>	<i><b>ω</b></i>	<i><b>Ω</b></i>	<i><b>ω</b></i>	<i><b>ω</b></i>	<code>\mbfitOmega</code>	mathematical bold italic capital omega

### 15.2.8 Bold italic Greek, lowercase

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+1D736	<i><b>α</b></i>	<i><b>α</b></i>	<i><b>α</b></i>	<i><b>α</b></i>	<i><b>α</b></i>	<i><b>α</b></i>	<i><b>α</b></i>	<code>\mbfitalpha</code>	mathematical bold italic small alpha
U+1D737	<i><b>β</b></i>	<i><b>β</b></i>	<i><b>β</b></i>	<i><b>β</b></i>	<i><b>β</b></i>	<i><b>β</b></i>	<i><b>β</b></i>	<code>\mbfitbeta</code>	mathematical bold italic small beta
U+1D738	<i><b>γ</b></i>	<i><b>γ</b></i>	<i><b>γ</b></i>	<i><b>γ</b></i>	<i><b>γ</b></i>	<i><b>γ</b></i>	<i><b>γ</b></i>	<code>\mbfitgamma</code>	mathematical bold italic small gamma
U+1D739	<i><b>δ</b></i>	<i><b>δ</b></i>	<i><b>δ</b></i>	<i><b>δ</b></i>	<i><b>δ</b></i>	<i><b>δ</b></i>	<i><b>δ</b></i>	<code>\mbfitdelta</code>	mathematical bold italic small delta
U+1D73A	<i><b>ε</b></i>	<i><b>ε</b></i>	<i><b>ε</b></i>	<i><b>ε</b></i>	<i><b>ε</b></i>	<i><b>ε</b></i>	<i><b>ε</b></i>	<code>\mbfitvarepsilon</code>	mathematical bold italic small varepsilon
U+1D73B	<i><b>ζ</b></i>	<i><b>ζ</b></i>	<i><b>ζ</b></i>	<i><b>ζ</b></i>	<i><b>ζ</b></i>	<i><b>ζ</b></i>	<i><b>ζ</b></i>	<code>\mbfitzeta</code>	mathematical bold italic small zeta

usv	C	M	Lu	K	Le	N	F	Macro	Description
U+1D73C	<b>η</b>	<b>η</b>	<b>η</b>	<b>η</b>	<b>η</b>	<b>η</b>	<b>η</b>	<code>\mbfiteta</code>	mathematical bold italic small eta
U+1D73D	<b>θ</b>	<b>θ</b>	<b>θ</b>	<b>θ</b>	<b>θ</b>	<b>θ</b>	<b>θ</b>	<code>\mbfittheta</code>	mathematical bold italic small theta
U+1D73E	<b>ι</b>	<b>ι</b>	<b>ι</b>	<b>ι</b>	<b>ι</b>	<b>ι</b>	<b>ι</b>	<code>\mbfitiota</code>	mathematical bold italic small iota
U+1D73F	<b>κ</b>	<b>κ</b>	<b>κ</b>	<b>κ</b>	<b>κ</b>	<b>κ</b>	<b>κ</b>	<code>\mbfitkappa</code>	mathematical bold italic small kappa
U+1D740	<b>λ</b>	<b>λ</b>	<b>λ</b>	<b>λ</b>	<b>λ</b>	<b>λ</b>	<b>λ</b>	<code>\mbfitlambda</code>	mathematical bold italic small lambda
U+1D741	<b>μ</b>	<b>μ</b>	<b>μ</b>	<b>μ</b>	<b>μ</b>	<b>μ</b>	<b>μ</b>	<code>\mbfitmu</code>	mathematical bold italic small mu
U+1D742	<b>ν</b>	<b>ν</b>	<b>ν</b>	<b>ν</b>	<b>ν</b>	<b>ν</b>	<b>ν</b>	<code>\mbfitnu</code>	mathematical bold italic small nu
U+1D743	<b>ξ</b>	<b>ξ</b>	<b>ξ</b>	<b>ξ</b>	<b>ξ</b>	<b>ξ</b>	<b>ξ</b>	<code>\mbfitxi</code>	mathematical bold italic small xi
U+1D744	<b>ο</b>	<b>ο</b>	<b>ο</b>	<b>ο</b>	<b>ο</b>	<b>ο</b>	<b>ο</b>	<code>\mbfitomicron</code>	mathematical bold italic small omicron
U+1D745	<b>π</b>	<b>π</b>	<b>π</b>	<b>π</b>	<b>π</b>	<b>π</b>	<b>π</b>	<code>\mbfitpi</code>	mathematical bold italic small pi
U+1D746	<b>ρ</b>	<b>ρ</b>	<b>ρ</b>	<b>ρ</b>	<b>ρ</b>	<b>ρ</b>	<b>ρ</b>	<code>\mbfitrho</code>	mathematical bold italic small rho
U+1D747	<b>ς</b>	<b>ς</b>	<b>ς</b>	<b>ς</b>	<b>ς</b>	<b>ς</b>	<b>ς</b>	<code>\mbfitvarsigma</code>	mathematical bold italic small final sigma
U+1D748	<b>σ</b>	<b>σ</b>	<b>σ</b>	<b>σ</b>	<b>σ</b>	<b>σ</b>	<b>σ</b>	<code>\mbfitsigma</code>	mathematical bold italic small sigma
U+1D749	<b>τ</b>	<b>τ</b>	<b>τ</b>	<b>τ</b>	<b>τ</b>	<b>τ</b>	<b>τ</b>	<code>\mbfittau</code>	mathematical bold italic small tau
U+1D74A	<b>υ</b>	<b>υ</b>	<b>υ</b>	<b>υ</b>	<b>υ</b>	<b>υ</b>	<b>υ</b>	<code>\mbfitupsilon</code>	mathematical bold italic small upsilon
U+1D74B	<b>φ</b>	<b>φ</b>	<b>φ</b>	<b>φ</b>	<b>φ</b>	<b>φ</b>	<b>φ</b>	<code>\mbfitvarphi</code>	mathematical bold italic small phi
U+1D74C	<b>χ</b>	<b>χ</b>	<b>χ</b>	<b>χ</b>	<b>χ</b>	<b>χ</b>	<b>χ</b>	<code>\mbfitchi</code>	mathematical bold italic small chi
U+1D74D	<b>ψ</b>	<b>ψ</b>	<b>ψ</b>	<b>ψ</b>	<b>ψ</b>	<b>ψ</b>	<b>ψ</b>	<code>\mbfitpsi</code>	mathematical bold italic small psi
U+1D74E	<b>ω</b>	<b>ω</b>	<b>ω</b>	<b>ω</b>	<b>ω</b>	<b>ω</b>	<b>ω</b>	<code>\mbfitomega</code>	mathematical bold italic small omega
U+1D74F	<b>∂</b>	<b>∂</b>	<b>∂</b>	<b>∂</b>	<b>∂</b>	<b>∂</b>	<b>∂</b>	<code>\mbfitpartial</code>	mathematical bold italic partial differential
U+1D750	<b>ε</b>	<b>ε</b>	<b>ε</b>	<b>ε</b>	<b>ε</b>	<b>ε</b>	<b>ε</b>	<code>\mbfitepsilon</code>	mathematical bold italic varepsilon symbol
U+1D751	<b>ϑ</b>	<b>ϑ</b>	<b>ϑ</b>	<b>ϑ</b>	<b>ϑ</b>	<b>ϑ</b>	<b>ϑ</b>	<code>\mbfitvartheta</code>	mathematical bold italic theta symbol
U+1D752	<b>κ</b>	<b>κ</b>	<b>κ</b>	<b>κ</b>	<b>κ</b>	<b>κ</b>	<b>κ</b>	<code>\mbfitvarkappa</code>	mathematical bold italic kappa symbol
U+1D753	<b>φ</b>	<b>φ</b>	<b>φ</b>	<b>φ</b>	<b>φ</b>	<b>φ</b>	<b>φ</b>	<code>\mbfitphi</code>	mathematical bold italic phi symbol
U+1D754	<b>ρ</b>	<b>ρ</b>	<b>ρ</b>	<b>ρ</b>	<b>ρ</b>	<b>ρ</b>	<b>ρ</b>	<code>\mbfitvarrho</code>	mathematical bold italic rho symbol
U+1D755	<b>ω</b>	<b>ω</b>	<b>ω</b>	<b>ω</b>	<b>ω</b>	<b>ω</b>	<b>ω</b>	<code>\mbfitvarpi</code>	mathematical bold italic pi symbol



USV	C	M	Lu	K	Le	N	F	Macro	Description
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### 15.2.9 Bold script, Latin, uppercase

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

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+1D4E6	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>	<i>W</i>		<code>\mbfscrW</code>	mathematical bold script capital w
U+1D4E7	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>		<code>\mbfscrX</code>	mathematical bold script capital x
U+1D4E8	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>	<i>Y</i>		<code>\mbfscrY</code>	mathematical bold script capital y
U+1D4E9	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>	<i>Z</i>		<code>\mbfscrZ</code>	mathematical bold script capital z

### 15.2.10 Bold script, Latin, lowercase

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+1D4EA	<i>a</i>					<i>a</i>		<code>\mbfscra</code>	mathematical bold script small a
U+1D4EB	<i>b</i>					<i>b</i>		<code>\mbfscrb</code>	mathematical bold script small b
U+1D4EC	<i>c</i>					<i>c</i>		<code>\mbfscrc</code>	mathematical bold script small c
U+1D4ED	<i>d</i>					<i>d</i>		<code>\mbfscrd</code>	mathematical bold script small d
U+1D4EE	<i>e</i>					<i>e</i>		<code>\mbfscree</code>	mathematical bold script small e
U+1D4EF	<i>f</i>					<i>f</i>		<code>\mbfscrf</code>	mathematical bold script small f
U+1D4F0	<i>g</i>					<i>g</i>		<code>\mbfscrg</code>	mathematical bold script small g
U+1D4F1	<i>h</i>					<i>h</i>		<code>\mbfscrh</code>	mathematical bold script small h
U+1D4F2	<i>i</i>					<i>i</i>		<code>\mbfscri</code>	mathematical bold script small i
U+1D4F3	<i>j</i>					<i>j</i>		<code>\mbfscrj</code>	mathematical bold script small j
U+1D4F4	<i>k</i>					<i>k</i>		<code>\mbfscrk</code>	mathematical bold script small k
U+1D4F5	<i>l</i>					<i>l</i>		<code>\mbfscr l</code>	mathematical bold script small l
U+1D4F6	<i>m</i>					<i>m</i>		<code>\mbfscrm</code>	mathematical bold script small m
U+1D4F7	<i>n</i>					<i>n</i>		<code>\mbfscrn</code>	mathematical bold script small n
U+1D4F8	<i>o</i>					<i>o</i>		<code>\mbfscro</code>	mathematical bold script small o
U+1D4F9	<i>p</i>					<i>p</i>		<code>\mbfscrp</code>	mathematical bold script small p
U+1D4FA	<i>q</i>					<i>q</i>		<code>\mbfscrq</code>	mathematical bold script small q
U+1D4FB	<i>r</i>					<i>r</i>		<code>\mbfscrr</code>	mathematical bold script small r
U+1D4FC	<i>s</i>					<i>s</i>		<code>\mbfscrs</code>	mathematical bold script small s

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+1D4FD	<b>t</b>					<b>t</b>		<code>\mbfscrt</code>	mathematical bold script small t
U+1D4FE	<b>u</b>					<b>u</b>		<code>\mbfscru</code>	mathematical bold script small u
U+1D4FF	<b>v</b>					<b>v</b>		<code>\mbfscrv</code>	mathematical bold script small v
U+1D500	<b>w</b>					<b>w</b>		<code>\mbfscrw</code>	mathematical bold script small w
U+1D501	<b>x</b>					<b>x</b>		<code>\mbfscrx</code>	mathematical bold script small x
U+1D502	<b>y</b>					<b>y</b>		<code>\mbfscry</code>	mathematical bold script small y
U+1D503	<b>z</b>					<b>z</b>		<code>\mbfscrz</code>	mathematical bold script small z

### 15.2.11 Bold fraktur, Latin, uppercase

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+1D56C	<b>A</b>	<b>A</b>		<b>A</b>	<b>A</b>	<b>A</b>		<code>\mbffrakA</code>	mathematical bold fraktur capital a
U+1D56D	<b>B</b>	<b>B</b>		<b>B</b>	<b>B</b>	<b>B</b>		<code>\mbffrakB</code>	mathematical bold fraktur capital b
U+1D56E	<b>C</b>	<b>C</b>		<b>C</b>	<b>C</b>	<b>C</b>		<code>\mbffrakC</code>	mathematical bold fraktur capital c
U+1D56F	<b>D</b>	<b>D</b>		<b>D</b>	<b>D</b>	<b>D</b>		<code>\mbffrakD</code>	mathematical bold fraktur capital d
U+1D570	<b>E</b>	<b>E</b>		<b>E</b>	<b>E</b>	<b>E</b>		<code>\mbffrakE</code>	mathematical bold fraktur capital e
U+1D571	<b>F</b>	<b>F</b>		<b>F</b>	<b>F</b>	<b>F</b>		<code>\mbffrakF</code>	mathematical bold fraktur capital f
U+1D572	<b>G</b>	<b>G</b>		<b>G</b>	<b>G</b>	<b>G</b>		<code>\mbffrakG</code>	mathematical bold fraktur capital g
U+1D573	<b>H</b>	<b>H</b>		<b>H</b>	<b>H</b>	<b>H</b>		<code>\mbffrakH</code>	mathematical bold fraktur capital h
U+1D574	<b>I</b>	<b>I</b>		<b>I</b>	<b>I</b>	<b>I</b>		<code>\mbffrakI</code>	mathematical bold fraktur capital i
U+1D575	<b>J</b>	<b>J</b>		<b>J</b>	<b>J</b>	<b>J</b>		<code>\mbffrakJ</code>	mathematical bold fraktur capital j
U+1D576	<b>K</b>	<b>K</b>		<b>K</b>	<b>K</b>	<b>K</b>		<code>\mbffrakK</code>	mathematical bold fraktur capital k
U+1D577	<b>L</b>	<b>L</b>		<b>L</b>	<b>L</b>	<b>L</b>		<code>\mbffrakL</code>	mathematical bold fraktur capital l
U+1D578	<b>M</b>	<b>M</b>		<b>M</b>	<b>M</b>	<b>M</b>		<code>\mbffrakM</code>	mathematical bold fraktur capital m
U+1D579	<b>N</b>	<b>N</b>		<b>N</b>	<b>N</b>	<b>N</b>		<code>\mbffrakN</code>	mathematical bold fraktur capital n
U+1D57A	<b>O</b>	<b>O</b>		<b>O</b>	<b>O</b>	<b>O</b>		<code>\mbffrakO</code>	mathematical bold fraktur capital o

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+1D57B	<b>P</b>	<b>P</b>		<b>P</b>	<b>P</b>	<b>P</b>		<code>\mbffrakP</code>	mathematical bold fraktur capital p
U+1D57C	<b>Q</b>	<b>Q</b>		<b>Q</b>	<b>Q</b>	<b>Q</b>		<code>\mbffrakQ</code>	mathematical bold fraktur capital q
U+1D57D	<b>R</b>	<b>R</b>		<b>R</b>	<b>R</b>	<b>R</b>		<code>\mbffrakR</code>	mathematical bold fraktur capital r
U+1D57E	<b>S</b>	<b>S</b>		<b>S</b>	<b>S</b>	<b>S</b>		<code>\mbffrakS</code>	mathematical bold fraktur capital s
U+1D57F	<b>T</b>	<b>T</b>		<b>T</b>	<b>T</b>	<b>T</b>		<code>\mbffrakT</code>	mathematical bold fraktur capital t
U+1D580	<b>U</b>	<b>U</b>		<b>U</b>	<b>U</b>	<b>U</b>		<code>\mbffrakU</code>	mathematical bold fraktur capital u
U+1D581	<b>V</b>	<b>V</b>		<b>V</b>	<b>V</b>	<b>V</b>		<code>\mbffrakV</code>	mathematical bold fraktur capital v
U+1D582	<b>W</b>	<b>W</b>		<b>W</b>	<b>W</b>	<b>W</b>		<code>\mbffrakW</code>	mathematical bold fraktur capital w
U+1D583	<b>X</b>	<b>X</b>		<b>X</b>	<b>X</b>	<b>X</b>		<code>\mbffrakX</code>	mathematical bold fraktur capital x
U+1D584	<b>Y</b>	<b>Y</b>		<b>Y</b>	<b>Y</b>	<b>Y</b>		<code>\mbffrakY</code>	mathematical bold fraktur capital y
U+1D585	<b>Z</b>	<b>Z</b>		<b>Z</b>	<b>Z</b>	<b>Z</b>		<code>\mbffrakZ</code>	mathematical bold fraktur capital z

### 15.2.12 Bold fraktur, Latin, lowercase

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+1D586	<b>a</b>	<b>a</b>		<b>a</b>	<b>a</b>	<b>a</b>		<code>\mbffraka</code>	mathematical bold fraktur small a
U+1D587	<b>b</b>	<b>b</b>		<b>b</b>	<b>b</b>	<b>b</b>		<code>\mbffrakb</code>	mathematical bold fraktur small b
U+1D588	<b>c</b>	<b>c</b>		<b>c</b>	<b>c</b>	<b>c</b>		<code>\mbffrakc</code>	mathematical bold fraktur small c
U+1D589	<b>d</b>	<b>d</b>		<b>d</b>	<b>d</b>	<b>d</b>		<code>\mbffrakd</code>	mathematical bold fraktur small d
U+1D58A	<b>e</b>	<b>e</b>		<b>e</b>	<b>e</b>	<b>e</b>		<code>\mbffrake</code>	mathematical bold fraktur small e
U+1D58B	<b>f</b>	<b>f</b>		<b>f</b>	<b>f</b>	<b>f</b>		<code>\mbffrakf</code>	mathematical bold fraktur small f
U+1D58C	<b>g</b>	<b>g</b>		<b>g</b>	<b>g</b>	<b>g</b>		<code>\mbffrakg</code>	mathematical bold fraktur small g
U+1D58D	<b>h</b>	<b>h</b>		<b>h</b>	<b>h</b>	<b>h</b>		<code>\mbffrakh</code>	mathematical bold fraktur small h
U+1D58E	<b>i</b>	<b>i</b>		<b>i</b>	<b>i</b>	<b>i</b>		<code>\mbffraki</code>	mathematical bold fraktur small i
U+1D58F	<b>j</b>	<b>j</b>		<b>j</b>	<b>j</b>	<b>j</b>		<code>\mbffrakj</code>	mathematical bold fraktur small j
U+1D590	<b>k</b>	<b>k</b>		<b>k</b>	<b>k</b>	<b>k</b>		<code>\mbffrakk</code>	mathematical bold fraktur small k
U+1D591	<b>l</b>	<b>l</b>		<b>l</b>	<b>l</b>	<b>l</b>		<code>\mbffrakl</code>	mathematical bold fraktur small l

usv	C	M	Lu	K	Le	N	F	Macro	Description
U+1D592	<b>m</b>	<b>m</b>		<b>m</b>	<b>m</b>	<b>m</b>		\mbffrakm	mathematical bold fraktur small m
U+1D593	<b>n</b>	<b>n</b>		<b>n</b>	<b>n</b>	<b>n</b>		\mbffrakn	mathematical bold fraktur small n
U+1D594	<b>o</b>	<b>o</b>		<b>o</b>	<b>o</b>	<b>o</b>		\mbffrako	mathematical bold fraktur small o
U+1D595	<b>p</b>	<b>p</b>		<b>p</b>	<b>p</b>	<b>p</b>		\mbffrakp	mathematical bold fraktur small p
U+1D596	<b>q</b>	<b>q</b>		<b>q</b>	<b>q</b>	<b>q</b>		\mbffrakq	mathematical bold fraktur small q
U+1D597	<b>r</b>	<b>r</b>		<b>r</b>	<b>r</b>	<b>r</b>		\mbffrakr	mathematical bold fraktur small r
U+1D598	<b>s</b>	<b>s</b>		<b>s</b>	<b>s</b>	<b>s</b>		\mbffraks	mathematical bold fraktur small s
U+1D599	<b>t</b>	<b>t</b>		<b>t</b>	<b>t</b>	<b>t</b>		\mbffrakt	mathematical bold fraktur small t
U+1D59A	<b>u</b>	<b>u</b>		<b>u</b>	<b>u</b>	<b>u</b>		\mbffraku	mathematical bold fraktur small u
U+1D59B	<b>v</b>	<b>v</b>		<b>v</b>	<b>v</b>	<b>v</b>		\mbffrakv	mathematical bold fraktur small v
U+1D59C	<b>w</b>	<b>w</b>		<b>w</b>	<b>w</b>	<b>w</b>		\mbffrakw	mathematical bold fraktur small w
U+1D59D	<b>x</b>	<b>x</b>		<b>x</b>	<b>x</b>	<b>x</b>		\mbffrakx	mathematical bold fraktur small x
U+1D59E	<b>y</b>	<b>y</b>		<b>y</b>	<b>y</b>	<b>y</b>		\mbffraky	mathematical bold fraktur small y
U+1D59F	<b>z</b>	<b>z</b>		<b>z</b>	<b>z</b>	<b>z</b>		\mbffrakz	mathematical bold fraktur small z

### 15.2.13 Bold sans serif, Latin, uppercase

usv	C	M	Lu	K	Le	N	F	Macro	Description
U+1D5D4	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>		\mbfsansA	mathematical sans-serif bold capital a
U+1D5D5	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>		\mbfsansB	mathematical sans-serif bold capital b
U+1D5D6	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>	<b>C</b>		\mbfsansC	mathematical sans-serif bold capital c
U+1D5D7	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>	<b>D</b>		\mbfsansD	mathematical sans-serif bold capital d
U+1D5D8	<b>E</b>	<b>E</b>	<b>E</b>	<b>E</b>	<b>E</b>	<b>E</b>		\mbfsansE	mathematical sans-serif bold capital e
U+1D5D9	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>		\mbfsansF	mathematical sans-serif bold capital f
U+1D5DA	<b>G</b>	<b>G</b>	<b>G</b>	<b>G</b>	<b>G</b>	<b>G</b>		\mbfsansG	mathematical sans-serif bold capital g
U+1D5DB	<b>H</b>	<b>H</b>	<b>H</b>	<b>H</b>	<b>H</b>	<b>H</b>		\mbfsansH	mathematical sans-serif bold capital h
U+1D5DC	<b>I</b>	<b>I</b>	<b>I</b>	<b>I</b>	<b>I</b>	<b>I</b>		\mbfsansI	mathematical sans-serif bold capital i

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+1D5DD	J	J	J	J	J	J		\mbfsansJ	mathematical sans-serif bold capital j
U+1D5DE	K	K	K	K	K	K		\mbfsansK	mathematical sans-serif bold capital k
U+1D5DF	L	L	L	L	L	L		\mbfsansL	mathematical sans-serif bold capital l
U+1D5E0	M	M	M	M	M	M		\mbfsansM	mathematical sans-serif bold capital m
U+1D5E1	N	N	N	N	N	N		\mbfsansN	mathematical sans-serif bold capital n
U+1D5E2	O	O	O	O	O	O		\mbfsansO	mathematical sans-serif bold capital o
U+1D5E3	P	P	P	P	P	P		\mbfsansP	mathematical sans-serif bold capital p
U+1D5E4	Q	Q	Q	Q	Q	Q		\mbfsansQ	mathematical sans-serif bold capital q
U+1D5E5	R	R	R	R	R	R		\mbfsansR	mathematical sans-serif bold capital r
U+1D5E6	S	S	S	S	S	S		\mbfsansS	mathematical sans-serif bold capital s
U+1D5E7	T	T	T	T	T	T		\mbfsansT	mathematical sans-serif bold capital t
U+1D5E8	U	U	U	U	U	U		\mbfsansU	mathematical sans-serif bold capital u
U+1D5E9	V	V	V	V	V	V		\mbfsansV	mathematical sans-serif bold capital v
U+1D5EA	W	W	W	W	W	W		\mbfsansW	mathematical sans-serif bold capital w
U+1D5EB	X	X	X	X	X	X		\mbfsansX	mathematical sans-serif bold capital x
U+1D5EC	Y	Y	Y	Y	Y	Y		\mbfsansY	mathematical sans-serif bold capital y
U+1D5ED	Z	Z	Z	Z	Z	Z		\mbfsansZ	mathematical sans-serif bold capital z

### 15.2.14 Bold sans serif, Latin, lowercase

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+1D5EE	a	a	a	a	a	a		\mbfsansa	mathematical sans-serif bold small a
U+1D5EF	b	b	b	b	b	b		\mbfsansb	mathematical sans-serif bold small b
U+1D5F0	c	c	c	c	c	c		\mbfsansc	mathematical sans-serif bold small c
U+1D5F1	d	d	d	d	d	d		\mbfsansd	mathematical sans-serif bold small d
U+1D5F2	e	e	e	e	e	e		\mbfsanse	mathematical sans-serif bold small e

usv	C	M	Lu	K	Le	N	F	Macro	Description
U+1D5F3	<b>f</b>	<b>f</b>	<b>f</b>	<b>f</b>	<b>f</b>	<b>f</b>		<code>\mbfsansf</code>	mathematical sans-serif bold small f
U+1D5F4	<b>g</b>	<b>g</b>	<b>g</b>	<b>g</b>	<b>g</b>	<b>g</b>		<code>\mbfsansg</code>	mathematical sans-serif bold small g
U+1D5F5	<b>h</b>	<b>h</b>	<b>h</b>	<b>h</b>	<b>h</b>	<b>h</b>		<code>\mbfsansh</code>	mathematical sans-serif bold small h
U+1D5F6	<b>i</b>	<b>i</b>	<b>i</b>	<b>i</b>	<b>i</b>	<b>i</b>		<code>\mbfsansi</code>	mathematical sans-serif bold small i
U+1D5F7	<b>j</b>	<b>j</b>	<b>j</b>	<b>j</b>	<b>j</b>	<b>j</b>		<code>\mbfsansj</code>	mathematical sans-serif bold small j
U+1D5F8	<b>k</b>	<b>k</b>	<b>k</b>	<b>k</b>	<b>k</b>	<b>k</b>		<code>\mbfsansk</code>	mathematical sans-serif bold small k
U+1D5F9	<b>l</b>	<b>l</b>	<b>l</b>	<b>l</b>	<b>l</b>	<b>l</b>		<code>\mbfsansl</code>	mathematical sans-serif bold small l
U+1D5FA	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>	<b>m</b>		<code>\mbfsansm</code>	mathematical sans-serif bold small m
U+1D5FB	<b>n</b>	<b>n</b>	<b>n</b>	<b>n</b>	<b>n</b>	<b>n</b>		<code>\mbfsansn</code>	mathematical sans-serif bold small n
U+1D5FC	<b>o</b>	<b>o</b>	<b>o</b>	<b>o</b>	<b>o</b>	<b>o</b>		<code>\mbfsanso</code>	mathematical sans-serif bold small o
U+1D5FD	<b>p</b>	<b>p</b>	<b>p</b>	<b>p</b>	<b>p</b>	<b>p</b>		<code>\mbfsansp</code>	mathematical sans-serif bold small p
U+1D5FE	<b>q</b>	<b>q</b>	<b>q</b>	<b>q</b>	<b>q</b>	<b>q</b>		<code>\mbfsansq</code>	mathematical sans-serif bold small q
U+1D5FF	<b>r</b>	<b>r</b>	<b>r</b>	<b>r</b>	<b>r</b>	<b>r</b>		<code>\mbfsansr</code>	mathematical sans-serif bold small r
U+1D600	<b>s</b>	<b>s</b>	<b>s</b>	<b>s</b>	<b>s</b>	<b>s</b>		<code>\mbfsanss</code>	mathematical sans-serif bold small s
U+1D601	<b>t</b>	<b>t</b>	<b>t</b>	<b>t</b>	<b>t</b>	<b>t</b>		<code>\mbfsanst</code>	mathematical sans-serif bold small t
U+1D602	<b>u</b>	<b>u</b>	<b>u</b>	<b>u</b>	<b>u</b>	<b>u</b>		<code>\mbfsansu</code>	mathematical sans-serif bold small u
U+1D603	<b>v</b>	<b>v</b>	<b>v</b>	<b>v</b>	<b>v</b>	<b>v</b>		<code>\mbfsansv</code>	mathematical sans-serif bold small v
U+1D604	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>		<code>\mbfsansw</code>	mathematical sans-serif bold small w
U+1D605	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>		<code>\mbfsansx</code>	mathematical sans-serif bold small x
U+1D606	<b>y</b>	<b>y</b>	<b>y</b>	<b>y</b>	<b>y</b>	<b>y</b>		<code>\mbfsansy</code>	mathematical sans-serif bold small y
U+1D607	<b>z</b>	<b>z</b>	<b>z</b>	<b>z</b>	<b>z</b>	<b>z</b>		<code>\mbfsansz</code>	mathematical sans-serif bold small z

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

usv	C	M	Lu	K	Le	N	F	Macro	Description
U+1D63C	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>		<code>\mbfitsansA</code>	mathematical sans-serif bold italic capital a

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



## 15.2.16 Bold italic sans serif, Latin, lowercase

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+1D656	<b><i>a</i></b>	<b><i>a</i></b>	<b><i>a</i></b>	<b><i>a</i></b>	<b><i>a</i></b>	<b><i>a</i></b>		\mbfitsansa	mathematical sans-serif bold italic small a
U+1D657	<b><i>b</i></b>	<b><i>b</i></b>	<b><i>b</i></b>	<b><i>b</i></b>	<b><i>b</i></b>	<b><i>b</i></b>		\mbfitsansb	mathematical sans-serif bold italic small b
U+1D658	<b><i>c</i></b>	<b><i>c</i></b>	<b><i>c</i></b>	<b><i>c</i></b>	<b><i>c</i></b>	<b><i>c</i></b>		\mbfitsansc	mathematical sans-serif bold italic small c
U+1D659	<b><i>d</i></b>	<b><i>d</i></b>	<b><i>d</i></b>	<b><i>d</i></b>	<b><i>d</i></b>	<b><i>d</i></b>		\mbfitsansd	mathematical sans-serif bold italic small d
U+1D65A	<b><i>e</i></b>	<b><i>e</i></b>	<b><i>e</i></b>	<b><i>e</i></b>	<b><i>e</i></b>	<b><i>e</i></b>		\mbfitsanse	mathematical sans-serif bold italic small e
U+1D65B	<b><i>f</i></b>	<b><i>f</i></b>	<b><i>f</i></b>	<b><i>f</i></b>	<b><i>f</i></b>	<b><i>f</i></b>		\mbfitsansf	mathematical sans-serif bold italic small f
U+1D65C	<b><i>g</i></b>	<b><i>g</i></b>	<b><i>g</i></b>	<b><i>g</i></b>	<b><i>g</i></b>	<b><i>g</i></b>		\mbfitsansg	mathematical sans-serif bold italic small g
U+1D65D	<b><i>h</i></b>	<b><i>h</i></b>	<b><i>h</i></b>	<b><i>h</i></b>	<b><i>h</i></b>	<b><i>h</i></b>		\mbfitsansh	mathematical sans-serif bold italic small h
U+1D65E	<b><i>i</i></b>	<b><i>i</i></b>	<b><i>i</i></b>	<b><i>i</i></b>	<b><i>i</i></b>	<b><i>i</i></b>		\mbfitsansi	mathematical sans-serif bold italic small i
U+1D65F	<b><i>j</i></b>	<b><i>j</i></b>	<b><i>j</i></b>	<b><i>j</i></b>	<b><i>j</i></b>	<b><i>j</i></b>		\mbfitsansj	mathematical sans-serif bold italic small j
U+1D660	<b><i>k</i></b>	<b><i>k</i></b>	<b><i>k</i></b>	<b><i>k</i></b>	<b><i>k</i></b>	<b><i>k</i></b>		\mbfitsansk	mathematical sans-serif bold italic small k
U+1D661	<b><i>l</i></b>	<b><i>l</i></b>	<b><i>l</i></b>	<b><i>l</i></b>	<b><i>l</i></b>	<b><i>l</i></b>		\mbfitsansl	mathematical sans-serif bold italic small l
U+1D662	<b><i>m</i></b>	<b><i>m</i></b>	<b><i>m</i></b>	<b><i>m</i></b>	<b><i>m</i></b>	<b><i>m</i></b>		\mbfitsansm	mathematical sans-serif bold italic small m
U+1D663	<b><i>n</i></b>	<b><i>n</i></b>	<b><i>n</i></b>	<b><i>n</i></b>	<b><i>n</i></b>	<b><i>n</i></b>		\mbfitsansn	mathematical sans-serif bold italic small n
U+1D664	<b><i>o</i></b>	<b><i>o</i></b>	<b><i>o</i></b>	<b><i>o</i></b>	<b><i>o</i></b>	<b><i>o</i></b>		\mbfitsanso	mathematical sans-serif bold italic small o
U+1D665	<b><i>p</i></b>	<b><i>p</i></b>	<b><i>p</i></b>	<b><i>p</i></b>	<b><i>p</i></b>	<b><i>p</i></b>		\mbfitsansp	mathematical sans-serif bold italic small p
U+1D666	<b><i>q</i></b>	<b><i>q</i></b>	<b><i>q</i></b>	<b><i>q</i></b>	<b><i>q</i></b>	<b><i>q</i></b>		\mbfitsansq	mathematical sans-serif bold italic small q
U+1D667	<b><i>r</i></b>	<b><i>r</i></b>	<b><i>r</i></b>	<b><i>r</i></b>	<b><i>r</i></b>	<b><i>r</i></b>		\mbfitsansr	mathematical sans-serif bold italic small r
U+1D668	<b><i>s</i></b>	<b><i>s</i></b>	<b><i>s</i></b>	<b><i>s</i></b>	<b><i>s</i></b>	<b><i>s</i></b>		\mbfitsanss	mathematical sans-serif bold italic small s
U+1D669	<b><i>t</i></b>	<b><i>t</i></b>	<b><i>t</i></b>	<b><i>t</i></b>	<b><i>t</i></b>	<b><i>t</i></b>		\mbfitsanst	mathematical sans-serif bold italic small t
U+1D66A	<b><i>u</i></b>	<b><i>u</i></b>	<b><i>u</i></b>	<b><i>u</i></b>	<b><i>u</i></b>	<b><i>u</i></b>		\mbfitsansu	mathematical sans-serif bold italic small u
U+1D66B	<b><i>v</i></b>	<b><i>v</i></b>	<b><i>v</i></b>	<b><i>v</i></b>	<b><i>v</i></b>	<b><i>v</i></b>		\mbfitsansv	mathematical sans-serif bold italic small v
U+1D66C	<b><i>w</i></b>	<b><i>w</i></b>	<b><i>w</i></b>	<b><i>w</i></b>	<b><i>w</i></b>	<b><i>w</i></b>		\mbfitsansw	mathematical sans-serif bold italic small w
U+1D66D	<b><i>x</i></b>	<b><i>x</i></b>	<b><i>x</i></b>	<b><i>x</i></b>	<b><i>x</i></b>	<b><i>x</i></b>		\mbfitsansx	mathematical sans-serif bold italic small x

usv	C	M	Lu	K	Le	N	F	Macro	Description
U+1D66E	<b>Ÿ</b>	<b>Ŷ</b>	<b>Ÿ</b>	<b>Ŷ</b>	<b>Ÿ</b>	<b>Ŷ</b>		<code>\mbfitsansy</code>	mathematical sans-serif bold italic small y
U+1D66F	<b>Ẓ</b>	<b>Ẓ</b>	<b>Ẓ</b>	<b>Ẓ</b>	<b>Ẓ</b>	<b>Ẓ</b>		<code>\mbfitsansz</code>	mathematical sans-serif bold italic small z

### 15.2.17 Bold sans serif Greek, uppercase

usv	C	M	Lu	K	Le	N	F	Macro	Description
U+1D756	<b>Α</b>	<b>Α</b>	<b>Α</b>	<b>Α</b>	<b>Α</b>	<b>Α</b>		<code>\mbfsansAlpha</code>	mathematical sans-serif bold capital alpha
U+1D757	<b>Β</b>	<b>Β</b>	<b>Β</b>	<b>Β</b>	<b>Β</b>	<b>Β</b>		<code>\mbfsansBeta</code>	mathematical sans-serif bold capital beta
U+1D758	<b>Γ</b>	<b>Γ</b>	<b>Γ</b>	<b>Γ</b>	<b>Γ</b>	<b>Γ</b>		<code>\mbfsansGamma</code>	mathematical sans-serif bold capital gamma
U+1D759	<b>Δ</b>	<b>Δ</b>	<b>Δ</b>	<b>Δ</b>	<b>Δ</b>	<b>Δ</b>		<code>\mbfsansDelta</code>	mathematical sans-serif bold capital delta
U+1D75A	<b>Ε</b>	<b>Ε</b>	<b>Ε</b>	<b>Ε</b>	<b>Ε</b>	<b>Ε</b>		<code>\mbfsansEpsilon</code>	mathematical sans-serif bold capital epsilon
U+1D75B	<b>Ζ</b>	<b>Ζ</b>	<b>Ζ</b>	<b>Ζ</b>	<b>Ζ</b>	<b>Ζ</b>		<code>\mbfsansZeta</code>	mathematical sans-serif bold capital zeta
U+1D75C	<b>Η</b>	<b>Η</b>	<b>Η</b>	<b>Η</b>	<b>Η</b>	<b>Η</b>		<code>\mbfsansEta</code>	mathematical sans-serif bold capital eta
U+1D75D	<b>Θ</b>	<b>Θ</b>	<b>Θ</b>	<b>Θ</b>	<b>Θ</b>	<b>Θ</b>		<code>\mbfsansTheta</code>	mathematical sans-serif bold capital theta
U+1D75E	<b>Ι</b>	<b>Ι</b>	<b>Ι</b>	<b>Ι</b>	<b>Ι</b>	<b>Ι</b>		<code>\mbfsansIota</code>	mathematical sans-serif bold capital iota
U+1D75F	<b>Κ</b>	<b>Κ</b>	<b>Κ</b>	<b>Κ</b>	<b>Κ</b>	<b>Κ</b>		<code>\mbfsansKappa</code>	mathematical sans-serif bold capital kappa
U+1D760	<b>Λ</b>	<b>Λ</b>	<b>Λ</b>	<b>Λ</b>	<b>Λ</b>	<b>Λ</b>		<code>\mbfsansLambda</code>	mathematical sans-serif bold capital lambda
U+1D761	<b>Μ</b>	<b>Μ</b>	<b>Μ</b>	<b>Μ</b>	<b>Μ</b>	<b>Μ</b>		<code>\mbfsansMu</code>	mathematical sans-serif bold capital mu
U+1D762	<b>Ν</b>	<b>Ν</b>	<b>Ν</b>	<b>Ν</b>	<b>Ν</b>	<b>Ν</b>		<code>\mbfsansNu</code>	mathematical sans-serif bold capital nu
U+1D763	<b>Ξ</b>	<b>Ξ</b>	<b>Ξ</b>	<b>Ξ</b>	<b>Ξ</b>	<b>Ξ</b>		<code>\mbfsansXi</code>	mathematical sans-serif bold capital xi
U+1D764	<b>Ο</b>	<b>Ο</b>	<b>Ο</b>	<b>Ο</b>	<b>Ο</b>	<b>Ο</b>		<code>\mbfsansOmicron</code>	mathematical sans-serif bold capital omicron
U+1D765	<b>Π</b>	<b>Π</b>	<b>Π</b>	<b>Π</b>	<b>Π</b>	<b>Π</b>		<code>\mbfsansPi</code>	mathematical sans-serif bold capital pi
U+1D766	<b>Ρ</b>	<b>Ρ</b>	<b>Ρ</b>	<b>Ρ</b>	<b>Ρ</b>	<b>Ρ</b>		<code>\mbfsansRho</code>	mathematical sans-serif bold capital rho
U+1D767	<b>Ϡ</b>	<b>Ϡ</b>	<b>Ϡ</b>	<b>Ϡ</b>	<b>Ϡ</b>	<b>Ϡ</b>		<code>\mbfsansvarTheta</code>	mathematical sans-serif bold capital theta symbol
U+1D768	<b>Σ</b>	<b>Σ</b>	<b>Σ</b>	<b>Σ</b>	<b>Σ</b>	<b>Σ</b>		<code>\mbfsansSigma</code>	mathematical sans-serif bold capital sigma
U+1D769	<b>Τ</b>	<b>Τ</b>	<b>Τ</b>	<b>Τ</b>	<b>Τ</b>	<b>Τ</b>		<code>\mbfsansTau</code>	mathematical sans-serif bold capital tau

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+1D76A	Υ	Ϝ	Ϛ	Ϟ	Ϝ	Ϛ		\mbfsansUpsilon	mathematical sans-serif bold capital upsilon
U+1D76B	Φ	ϕ	Ϙ	Ϡ	ϕ	Ϙ		\mbfsansPhi	mathematical sans-serif bold capital phi
U+1D76C	Χ	ϸ	Ϟ	Ϣ	Ϣ	Ϟ		\mbfsansChi	mathematical sans-serif bold capital chi
U+1D76D	Ψ	ϣ	Ϡ	ϣ	ϣ	Ϡ		\mbfsansPsi	mathematical sans-serif bold capital psi
U+1D76E	Ω	Ϥ	Ϟ	Ϥ	Ϥ	Ϟ		\mbfsansOmega	mathematical sans-serif bold capital omega

### 15.2.18 Bold sans serif Greek, lowercase

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+1D770	α	ϱ	α	α	α	α		\mbfsansalpha	mathematical sans-serif bold small alpha
U+1D771	β	ϱ	β	β	β	β		\mbfsansbeta	mathematical sans-serif bold small beta
U+1D772	γ	ϳ	γ	γ	γ	γ		\mbfsansgamma	mathematical sans-serif bold small gamma
U+1D773	δ	ϱ	δ	δ	δ	δ		\mbfsansdelta	mathematical sans-serif bold small delta
U+1D774	ε	ϵ	ε	ε	ε	ε		\mbfsansvarepsilon	mathematical sans-serif bold small varepsilon
U+1D775	ζ	ϱ	ζ	ζ	ζ	ζ		\mbfsanszeta	mathematical sans-serif bold small zeta
U+1D776	η	ϳ	η	η	η	η		\mbfsanseta	mathematical sans-serif bold small eta
U+1D777	θ	ϱ	θ	θ	θ	θ		\mbfsanstheta	mathematical sans-serif bold small theta
U+1D778	ι	ϱ	ι	ι	ι	ι		\mbfsansiota	mathematical sans-serif bold small iota
U+1D779	κ	ϱ	κ	κ	κ	κ		\mbfsanskappa	mathematical sans-serif bold small kappa
U+1D77A	λ	ϱ	λ	λ	λ	λ		\mbfsanslambda	mathematical sans-serif bold small lambda
U+1D77B	μ	ϱ	μ	μ	μ	μ		\mbfsansmu	mathematical sans-serif bold small mu
U+1D77C	ν	ϱ	ν	ν	ν	ν		\mbfsansnu	mathematical sans-serif bold small nu
U+1D77D	ξ	ϱ	ξ	ξ	ξ	ξ		\mbfsansxi	mathematical sans-serif bold small xi
U+1D77E	ο	ϱ	ο	ο	ο	ο		\mbfsansomicron	mathematical sans-serif bold small omicron
U+1D77F	π	ϱ	π	π	π	π		\mbfsanspi	mathematical sans-serif bold small pi
U+1D780	ρ	ϱ	ρ	ρ	ρ	ρ		\mbfsansrho	mathematical sans-serif bold small rho

usv	C	M	Lu	K	Le	N	F	Macro	Description
U+1D781	ς	ς	ς	ς	ς	ς		\mbfsansvarsigma	mathematical sans-serif bold small final sigma
U+1D782	σ	σ	σ	σ	σ	σ		\mbfsanssigma	mathematical sans-serif bold small sigma
U+1D783	τ	τ	τ	τ	τ	τ		\mbfsanstau	mathematical sans-serif bold small tau
U+1D784	υ	υ	υ	υ	υ	υ		\mbfsansupsilon	mathematical sans-serif bold small upsilon
U+1D785	φ	φ	φ	φ	φ	φ		\mbfsansvarphi	mathematical sans-serif bold small phi
U+1D786	χ	χ	χ	χ	χ	χ		\mbfsanschi	mathematical sans-serif bold small chi
U+1D787	ψ	ψ	ψ	ψ	ψ	ψ		\mbfsanspsi	mathematical sans-serif bold small psi
U+1D788	ω	ω	ω	ω	ω	ω		\mbfsansomega	mathematical sans-serif bold small omega
U+1D789	∂	∂	∂	∂	∂	∂		\mbfsanspartial	mathematical sans-serif bold partial differential
U+1D78A	ϵ	ϵ	ϵ	ϵ	ϵ	ϵ		\mbfsansepsilon	mathematical sans-serif bold varepsilon symbol
U+1D78B	θ	θ	θ	θ	θ	θ		\mbfsansvartheta	mathematical sans-serif bold theta symbol
U+1D78C	κ	κ	κ	κ	κ	κ		\mbfsansvarkappa	mathematical sans-serif bold kappa symbol
U+1D78D	φ	φ	φ	φ	φ	φ		\mbfsansphi	mathematical sans-serif bold phi symbol
U+1D78E	ρ	ρ	ρ	ρ	ρ	ρ		\mbfsansvarrho	mathematical sans-serif bold rho symbol
U+1D78F	ω	ω	ω	ω	ω	ω		\mbfsansvarpi	mathematical sans-serif bold pi symbol

### 15.2.19 Bold italic sans serif Greek, uppercase

usv	C	M	Lu	K	Le	N	F	Macro	Description
U+1D790	Α	Α	Α	Α	Α	Α		\mbfitsansAlpha	mathematical sans-serif bold italic capital alpha
U+1D791	Β	Β	Β	Β	Β	Β		\mbfitsansBeta	mathematical sans-serif bold italic capital beta
U+1D792	Γ	Γ	Γ	Γ	Γ	Γ		\mbfitsansGamma	mathematical sans-serif bold italic capital gamma
U+1D793	Δ	Δ	Δ	Δ	Δ	Δ		\mbfitsansDelta	mathematical sans-serif bold italic capital delta
U+1D794	Ε	Ε	Ε	Ε	Ε	Ε		\mbfitsansEpsilon	mathematical sans-serif bold italic capital epsilon
U+1D795	Ζ	Ζ	Ζ	Ζ	Ζ	Ζ		\mbfitsansZeta	mathematical sans-serif bold italic capital zeta
U+1D796	Η	Η	Η	Η	Η	Η		\mbfitsansEta	mathematical sans-serif bold italic capital eta

USV	C	M	Lu	K	Le	N	F	Macro	Description
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>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 capital iota
U+1D799	<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 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>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 capital mu
U+1D79C	<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 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>Ο</b>	<b>Ο</b>	<b>Ο</b>	<b>Ο</b>	<b>Ο</b>	<b>Ο</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
U+1D7A1	<b>ϐ</b>	<b>ϐ</b>	<b>ϐ</b>	<b>ϐ</b>	<b>ϐ</b>	<b>ϐ</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	C	M	Lu	K	Le	N	F	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

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+1D7AE	<b>ℰ</b>	<b>ℰ</b>	<b>ℰ</b>	<b>ℰ</b>	<b>ℰ</b>	<b>ℰ</b>		<code>\mbfitsansvarepsilon</code>	mathematical sans-serif bold italic small varepsilon
U+1D7AF	<b>ℱ</b>	<b>ℱ</b>	<b>ℱ</b>	<b>ℱ</b>	<b>ℱ</b>	<b>ℱ</b>		<code>\mbfitsanszeta</code>	mathematical sans-serif bold italic small zeta
U+1D7B0	<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 small eta
U+1D7B1	<b>ℹ</b>	<b>ℹ</b>	<b>ℹ</b>	<b>ℹ</b>	<b>ℹ</b>	<b>ℹ</b>		<code>\mbfitsanstheta</code>	mathematical sans-serif bold italic small theta
U+1D7B2	<b>Ⅎ</b>	<b>Ⅎ</b>	<b>Ⅎ</b>	<b>Ⅎ</b>	<b>Ⅎ</b>	<b>Ⅎ</b>		<code>\mbfitsansiota</code>	mathematical sans-serif bold italic small iota
U+1D7B3	<b>Ⅎ</b>	<b>Ⅎ</b>	<b>Ⅎ</b>	<b>Ⅎ</b>	<b>Ⅎ</b>	<b>Ⅎ</b>		<code>\mbfitsanskappa</code>	mathematical sans-serif bold italic small kappa
U+1D7B4	<b>ℳ</b>	<b>ℳ</b>	<b>ℳ</b>	<b>ℳ</b>	<b>ℳ</b>	<b>ℳ</b>		<code>\mbfitsanslambda</code>	mathematical sans-serif bold italic small lambda
U+1D7B5	<b>ℴ</b>	<b>ℴ</b>	<b>ℴ</b>	<b>ℴ</b>	<b>ℴ</b>	<b>ℴ</b>		<code>\mbfitsansmu</code>	mathematical sans-serif bold italic small mu
U+1D7B6	<b>ℵ</b>	<b>ℵ</b>	<b>ℵ</b>	<b>ℵ</b>	<b>ℵ</b>	<b>ℵ</b>		<code>\mbfitsansnu</code>	mathematical sans-serif bold italic small nu
U+1D7B7	<b>ℷ</b>	<b>ℷ</b>	<b>ℷ</b>	<b>ℷ</b>	<b>ℷ</b>	<b>ℷ</b>		<code>\mbfitsansxi</code>	mathematical sans-serif bold italic small xi
U+1D7B8	<b>ℸ</b>	<b>ℸ</b>	<b>ℸ</b>	<b>ℸ</b>	<b>ℸ</b>	<b>ℸ</b>		<code>\mbfitsansomicron</code>	mathematical sans-serif bold italic small omicron
U+1D7B9	<b>ℹ</b>	<b>ℹ</b>	<b>ℹ</b>	<b>ℹ</b>	<b>ℹ</b>	<b>ℹ</b>		<code>\mbfitsanspi</code>	mathematical sans-serif bold italic small pi
U+1D7BA	<b>Ⅎ</b>	<b>Ⅎ</b>	<b>Ⅎ</b>	<b>Ⅎ</b>	<b>Ⅎ</b>	<b>Ⅎ</b>		<code>\mbfitsansrho</code>	mathematical sans-serif bold italic small rho
U+1D7BB	<b>ℳ</b>	<b>ℳ</b>	<b>ℳ</b>	<b>ℳ</b>	<b>ℳ</b>	<b>ℳ</b>		<code>\mbfitsansvarsigma</code>	mathematical sans-serif bold italic small final sigma
U+1D7BC	<b>ℴ</b>	<b>ℴ</b>	<b>ℴ</b>	<b>ℴ</b>	<b>ℴ</b>	<b>ℴ</b>		<code>\mbfitsanssigma</code>	mathematical sans-serif bold italic small sigma
U+1D7BD	<b>ℵ</b>	<b>ℵ</b>	<b>ℵ</b>	<b>ℵ</b>	<b>ℵ</b>	<b>ℵ</b>		<code>\mbfitsanstau</code>	mathematical sans-serif bold italic small tau
U+1D7BE	<b>ℶ</b>	<b>ℶ</b>	<b>ℶ</b>	<b>ℶ</b>	<b>ℶ</b>	<b>ℶ</b>		<code>\mbfitsansupsilon</code>	mathematical sans-serif bold italic small upsilon
U+1D7BF	<b>ℷ</b>	<b>ℷ</b>	<b>ℷ</b>	<b>ℷ</b>	<b>ℷ</b>	<b>ℷ</b>		<code>\mbfitsansvarphi</code>	mathematical sans-serif bold italic small phi
U+1D7C0	<b>ℸ</b>	<b>ℸ</b>	<b>ℸ</b>	<b>ℸ</b>	<b>ℸ</b>	<b>ℸ</b>		<code>\mbfitsanschi</code>	mathematical sans-serif bold italic small chi
U+1D7C1	<b>ℹ</b>	<b>ℹ</b>	<b>ℹ</b>	<b>ℹ</b>	<b>ℹ</b>	<b>ℹ</b>		<code>\mbfitsanspsi</code>	mathematical sans-serif bold italic small psi
U+1D7C2	<b>ℶ</b>	<b>ℶ</b>	<b>ℶ</b>	<b>ℶ</b>	<b>ℶ</b>	<b>ℶ</b>		<code>\mbfitsansomega</code>	mathematical sans-serif bold italic small omega
U+1D7C3	<b>∂</b>	<b>∂</b>	<b>∂</b>	<b>∂</b>	<b>∂</b>	<b>∂</b>		<code>\mbfitsanspartial</code>	mathematical sans-serif bold italic partial differential
U+1D7C4	<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 varepsilon symbol
U+1D7C5	<b>ℹ</b>	<b>ℹ</b>	<b>ℹ</b>	<b>ℹ</b>	<b>ℹ</b>	<b>ℹ</b>		<code>\mbfitsansvartheta</code>	mathematical sans-serif bold italic theta symbol
U+1D7C6	<b>Ⅎ</b>	<b>Ⅎ</b>	<b>Ⅎ</b>	<b>Ⅎ</b>	<b>Ⅎ</b>	<b>Ⅎ</b>		<code>\mbfitsansvarkappa</code>	mathematical sans-serif bold italic kappa symbol
U+1D7C7	<b>ℴ</b>	<b>ℴ</b>	<b>ℴ</b>	<b>ℴ</b>	<b>ℴ</b>	<b>ℴ</b>		<code>\mbfitsansphi</code>	mathematical sans-serif bold italic phi symbol

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+1D7C8								<code>\mbfitsansvarrho</code>	mathematical sans-serif bold italic rho symbol
U+1D7C9								<code>\mbfitsansvarpi</code>	mathematical sans-serif bold italic pi symbol

### 15.3 Miscellaneous

USV	C	M	Lu	K	Le	N	F	Macro	Description
U+000F0								<code>\matheth</code>	eth
U+02010	-	-	-	-	-	-	-	<code>\mathhyphen</code>	hyphen
U+02102								<code>\BbbC</code>	/bbb c, open face c
U+0210A								<code>\mscrg</code>	/scr g, script letter g
U+0210B								<code>\mscrH</code>	hamiltonian (script capital h)
U+0210C								<code>\mfracH</code>	/frak h, upper case h
U+0210D								<code>\BbbH</code>	/bbb h, open face h
U+0210F								<code>\hslash<sup>(a)</sup></code>	/hslash - variant planck's over 2pi
U+02110								<code>\mscrI</code>	/scr i, script letter i
U+02111								<code>\Im<sup>(p)</sup></code>	imaginary part
U+02112								<code>\mscrL</code>	lagrangian (script capital l)
U+02113								<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								<code>\mscrR</code>	/scr r, script letter r
U+0211C								<code>\Re<sup>(p)</sup></code>	real part
U+0211D								<code>\BbbR</code>	/bbb r, open face r
U+02124								<code>\BbbZ</code>	/bbb z, open face z
U+02128								<code>\mfracZ</code>	/frak z, upper case z
U+02129								<code>\turnediota</code>	turned iota
U+0212B								<code>\Angstrom</code>	angstrom capital a, ring
U+0212C								<code>\mscrB</code>	bernoulli function (script capital b)
U+0212D								<code>\mfracC</code>	black-letter capital c
U+0212F								<code>\mscre</code>	/scr e, script letter e

usv	C	M	Lu	K	Le	N	F	Macro	Description
U+02130	$\mathcal{E}$	$\mathcal{E}$	$\mathcal{E}$	$\mathcal{E}$	$\mathcal{E}$	$\mathcal{E}$		<code>\mscrE</code>	/scr e, script letter e
U+02131	$\mathcal{F}$	$\mathcal{F}$	$\mathcal{F}$	$\mathcal{F}$	$\mathcal{F}$	$\mathcal{F}$		<code>\mscrF</code>	/scr f, script letter f
U+02133	$\mathcal{M}$	$\mathcal{M}$	$\mathcal{M}$	$\mathcal{M}$	$\mathcal{M}$	$\mathcal{M}$		<code>\mscrM</code>	physics m-matrix (script capital m)
U+02134	$\mathcal{O}$		$\mathcal{O}$		$\mathcal{O}$	$\mathcal{O}$		<code>\mscro</code>	order of (script small o)
U+02135	$\aleph$	$\aleph$	$\aleph$	$\aleph$	$\aleph$	$\aleph$	$\aleph$	<code>\aleph<sup>(p)</sup></code>	aleph, hebrew
U+02136	$\beth$	$\beth$	$\beth$	$\beth$	$\beth$	$\beth$	$\beth$	<code>\beth<sup>(a)</sup></code>	beth, hebrew
U+02137	$\gimel$	$\gimel$	$\gimel$	$\gimel$	$\gimel$	$\gimel$	$\gimel$	<code>\gimel<sup>(a)</sup></code>	gimel, hebrew
U+02138	$\daleth$	$\daleth$	$\daleth$	$\daleth$	$\daleth$	$\daleth$	$\daleth$	<code>\daleth<sup>(a)</sup></code>	daleth, hebrew
U+0213D	$\mathbb{Y}$	$\mathbb{Y}$				$\mathbb{Y}$		<code>\Bbbgamma</code>	double-struck small gamma
U+0213E	$\mathbb{I}$	$\mathbb{I}$			$\mathbb{I}$	$\mathbb{I}$		<code>\BbbGamma</code>	double-struck capital gamma
U+0213F	$\mathbb{I}$	$\mathbb{I}$			$\mathbb{I}$	$\mathbb{I}$		<code>\BbbPi</code>	double-struck capital pi
U+02202	$\partial$	$\partial$	$\partial$	$\partial$	$\partial$	$\partial$	$\partial$	<code>\partial<sup>(p)</sup></code>	partial differential
U+02207	$\nabla$	$\nabla$	$\nabla$	$\nabla$	$\nabla$	$\nabla$	$\nabla$	<code>\nabla<sup>(p)</sup></code>	nabla, del, hamilton operator
U+1D6A4	$\mathit{i}$	$\mathit{i}$	$\mathit{i}$	$\mathit{i}$	$\mathit{i}$	$\mathit{i}$	$\mathit{i}$	<code>\imath<sup>(p)</sup></code>	mathematical italic small dotless i
U+1D6A5	$\mathit{j}$	$\mathit{j}$	$\mathit{j}$	$\mathit{j}$	$\mathit{j}$	$\mathit{j}$	$\mathit{j}$	<code>\jmath<sup>(p)</sup></code>	mathematical italic small dotless j
U+1D6C1	$\nabla$	$\nabla$	$\nabla$	$\nabla$	$\nabla$	$\nabla$	$\nabla$	<code>\mbfnabla</code>	mathematical bold nabla
U+1D6FB	$\nabla$	$\nabla$	$\nabla$	$\nabla$	$\nabla$	$\nabla$	$\nabla$	<code>\mitnabla</code>	mathematical italic nabla
U+1D735	$\nabla$	$\nabla$	$\nabla$	$\nabla$	$\nabla$	$\nabla$	$\nabla$	<code>\mbfitnabla</code>	mathematical bold italic nabla
U+1D76F	$\nabla$	$\nabla$	$\nabla$	$\nabla$	$\nabla$	$\nabla$		<code>\mbfsansnabla</code>	mathematical sans-serif bold nabla
U+1D7A9	$\nabla$	$\nabla$	$\nabla$	$\nabla$	$\nabla$	$\nabla$		<code>\mbfitsansnabla</code>	mathematical sans-serif bold italic nabla
U+1D7CA	$\mathbf{F}$				$\mathbf{F}$	$\mathbf{F}$	$\mathbf{F}$	<code>\mbfDigamma</code>	mathematical bold capital digamma
U+1D7CB	$\mathbf{f}$				$\mathbf{f}$	$\mathbf{f}$	$\mathbf{f}$	<code>\mbfdigamma</code>	mathematical bold small digamma