

This is a list of TeX functions, sorted alphabetically. This list includes functions that KaTeX supports and some that it doesn't support. There is a similar page, with functions sorted by type.

If you know the shape of a character, but not its name, Detexify can help.

#### 1 Symbols

Symbol/Function	Rendered	Source or Comment
!	n!	n!
\!	do	a\!b
#	$y^2$	\def\bar#1{#1^2} \bar{y}
\#	#	
%		%this is a comment
\%	%	
&	$egin{array}{ccc} a & b & & & & & & & & & & & & & & & & &$	<pre>\begin{matrix}  a &amp; b \\ c &amp; d  \end{matrix}</pre>
\&	&	
•	,	
\'	á	\text{\'{a}}}
(	(	
)	)	
\	$\frac{a}{b}$	<pre>\text{\(\frac a b\)}</pre>
\	$a\ b$	a\ b
\"	ä	\text{\"{a}}
\\$	\$	
	a b	a{b}
\.	ä	\text{\.{a}}
\:	a b	a\:\:{b}
\;	a b	a \;\;{b}
_	$x_i$	x_i

Symbol/Function	Rendered	Source or Comment
\_	-	
\`	`a	\text{\\'{a}}
<	<	
\=	ā	\text{\\={a}}
>		
\>	a b	a\>\>{b}
[	[	
]	1	
{	a	{a}
}	a	{a}
\{	{	
\}	}	
	I	
\	II	
~	no no no breaks	no~no~breaks
\~	ã	\text{\\~{a}}
\\	$egin{array}{ccc} a & b & & & & & & & & & & & & & & & & &$	<pre>\begin{matrix}  a &amp; b \\ c &amp; d  \end{matrix}</pre>
	$x^i$	x^i
\^	â	\text{\\^{a}}

# 2 A

Symbol/Function	Rendered	Source or Comment
$\backslash AA$	Å	\AA
\aa	å	\aa
\above	$\frac{a}{b+1}$	{a \above{2pt} b+1}

Symbol/Function	Rendered	Source or Comment		
$\verb \above  with delims$	Not supported	Not supported		
\acute	é	\acute e		
\AE	Æ	<pre>\text{\AE}</pre>		
\ae	æ	<pre>\text{\ae}</pre>		
\alef	Ж			
\alefsym	Ж			
\aleph	Ж			
$\{ { m align} \}$	$a=b+c \qquad (1) \ d+e=f \qquad (2)$	<pre>\begin{align}  a&amp;=b+c \\  d+e&amp;=f  \end{align}</pre>		
{align*}	$a=b+c \ d+e=f$	<pre>\begin{align*}  a&amp;=b+c \\  d+e&amp;=f  \end{align*}</pre>		
$\{ { m aligned} \}$	$a=b+c \ d+e=f$	<pre>\begin{aligned} a&amp;=b+c \\ d+e&amp;=f \end{aligned}</pre>		
$\{ { m alignat} \}$	10x + 3y = 2 (3) 3x+13y = 4 (4)	\begin{alignat}{2}  10&x+ &3&y = 2 \\ 3&x+&13&y = 4  \end{alignat}		
$\{ { m alignat}^* \}$	$egin{array}{ll} 10x+ & 3y=2 \ & 3x{+}13y=4 \end{array}$	\begin{alignat*}{2}  10&x+ &3&y = 2 \\ 3&x+&13&y = 4  \end{alignat*}		
$\{ { m alignedat} \}$	10x + 3y = 2 3x + 13y = 4	\begin{alignedat}{2}  10&x+ &3&y = 2 \\ 3&x+&13&y = 4  \end{alignedat}		
\allowbreak				
\Alpha	A			

Symbol/Function	Rendered	Source or Comment
\alpha	α	
\amalg	П	
\And	&	
\and	Not supported	Deprecated
\ang	Not supported	Deprecated
\angl	$a_{\overline{f n} }$	
\angln	$a_{\overline{ ext{n}}}$	
\angle	∠	
\approx	≈	
\approxeq	≈	
\approxcolon	≈:	
\approxcoloncolon	≈::	
\arccos	arccos	
\arcctg	arcctg	
\arcsin	arcsin	
\arctan	arctan	
\arctg	arctg	
\arg	arg	
\argmax	arg max	
\argmin	$rg \min$	
{array}	$egin{array}{ccc} a & b & & & & & & & & & & & & & & & & &$	\begin{array}{cc}  a & b \\ c & d  \end{array}
\array	Not supported	see {array}
\arraystretch	$egin{array}{cccccccccccccccccccccccccccccccccccc$	<pre>\def\arraystretch{1.5} \begin{array}{cc}  a &amp; b \\  c &amp; d \end{array}</pre>

Symbol/Function	Rendered	Source or Comment
\Arrowvert	Not supported	see \Vert
\arrowvert	Not supported	see \vert
\ast	*	
\asymp	×	
\atop	a b	{a \atop b}
\atopwithdelims	Not supported	

### **3** B

Symbol/Fun ction	Rendered	Source or Comment
\backepsilon	Э	
\backprime	1	
\backsim	S	
\backsimeq	≅	
\backslash	\	
\bar	ay	\bar{y}
\barwedge	$\overline{\wedge}$	
\Bbb	ABC	\Bbb{ABC}  KaTeX supports A-Z & k
\Bbbk	k	
\bbox	Not supported	
\bcancel	5	\bcancel{5}
\because	v	
\begin	$egin{array}{cccccccccccccccccccccccccccccccccccc$	<pre>\begin{matrix}  a &amp; b \\ c &amp; d  \end{matrix}</pre>
\begingroup	ParseError: KaTeX parse error: Expected '\endgroup', got '}' at posi	\begingroup a}

Symbol/Fun Rendered Source or Comment ction tion 14: \begingroup a} \Beta В β \beta \beth  $\beth$ \between Ŏ \bf AaBb12 \bf AaBb12 \bfseries Not supported () \big \big(\big) () $\backslash \mathrm{Big}$ \Big(\Big) \bigcap  $\cap$ \bigcirc  $\bigcirc$ \bigcup U \bigg \bigg(\bigg)  $\backslash \mathrm{Bigg}$ \Bigg(\Bigg) \biggl \biggl( \Biggl() \Biggl \biggm \biggm\vert \Biggm \Biggm\vert \biggr \biggr) \Biggr \Biggr) ( \bigl \bigl( \Bigl \Bigl( \bigm \bigm\vert  $\backslash {\rm Bigm}$ \Bigm\vert \bigodot  $\odot$ \bigominus Not supported Issue #1222

Symbol/Fun ction	Rendered	Source or Comment
\bigoplus	$\oplus$	
\bigoslash	Not supported	Issue #1222
\bigotimes	$\otimes$	
\bigr	)	\bigr)
$\backslash \mathrm{Bigr}$	)	\Bigr)
\bigsqcap	Not supported	Issue #1222
\bigsqcup	Ц	
\bigstar	*	
\bigtriangledo wn	$\nabla$	
\bigtriangleup	Δ	
\biguplus	⊎	
\bigvee	V	
\bigwedge	Λ	
\binom	$\binom{n}{k}$	\binom n k
\blacklozenge	•	
\blacksquare		
\blacktriangle	<b>A</b>	
$\label{eq:blacktriangle} \  \   \text{down}$	▼	
$\$ left	<b>◄</b>	
\blacktriangle right	<b>&gt;</b>	
\bm	AaBb	\bm{AaBb}
{Bmatrix}	$egin{cases} a & b \ c & d \end{pmatrix}$	\begin{Bmatrix}  a & b \\ c & d  \end{Bmatrix}

Symbol/Fun ction	Rendered	Source or Comment
{Bmatrix*}		\begin{Bmatrix*}[r]  0 & -1 \\ -1 & 0  \end{Bmatrix*}
{bmatrix}	$egin{bmatrix} a & b \ c & d \end{bmatrix}$	<pre>\begin{bmatrix}  a &amp; b \\ c &amp; d  \end{bmatrix}</pre>
{bmatrix*}	$egin{bmatrix} 0 & -1 \ -1 & 0 \end{bmatrix}$	\begin{bmatrix*}[r]  0 & -1 \\ -1 & 0  \end{bmatrix*}
\bmod	$a \bmod b$	a \bmod b
\bold	AaBb123	\bold{AaBb123}
\boldsymbol	AaBb	\boldsymbol{AaBb}
\bot	<b>T</b>	
\bowtie	M	
\Box		
\boxdot		
\boxed	ab	\boxed{ab}
\boxminus		
\boxplus	⊞	
\boxtimes	$\boxtimes$	
\Bra	$\langle \psi  $	\Bra{\psi}
\bra	$\langle \psi  $	\bra{\psi}
\braket	$\langle \phi   \psi  angle$	\braket{\phi\vert\psi}
\brace	${n \brace k}$	{n\brace k}
\bracevert	Not supported	
\brack	$\begin{bmatrix} n \\ k \end{bmatrix}$	{n\brack k}
\breve	ĕu	\breve{eu}

Symbol/Fun ction	Rendered	Source or Comment
\buildrel	Not supported	
\bull	•	
\bullet	•	
\Bumpeq	<b>≎</b>	
\bumpeq	<u>≏</u>	

#### **4** C

Symbol/Function	Rendered	Source or Comment
\C	Not supported	Deprecated
\cal	$\mathcal{A}a\mathcal{B}b123$	\cal AaBb123
\cancel	5	\cancel{5}
\cancelto	Not supported	
$\$ Cap	M	
\cap	n	
{cases}	$\begin{cases} a & \text{if } b \\ c & \text{if } d \end{cases}$	<pre>\begin{cases}  a &amp;\text{if } b \\ c &amp;\text{if } d  \end{cases}</pre>
\cases	Not supported	See {cases}
{CD}	$ \begin{array}{ccc} A & \stackrel{a}{\longrightarrow} & B \\ \downarrow & & \uparrow_c \\ \downarrow & &   \\ C & = & D \end{array} $	\begin{CD}  A @>a>> B \\  @VbVV @AAcA \\  C @= D  \end{CD}
\cdot		
\cdotp		
\cdots		
\ce	${ m C_6H_5-CHO}$	\ce{C6H5-CH0} Requires an extension
\cee	Not supported	Deprecated by mhchem

Symbol/Function	Rendered	Source or Comment	
\centerdot	a.b	a\centerdot b	
\cf	Not supported	Deprecated by mhchem;	
use \ce instead			
\cfrac	$\cfrac{2}{1+\cfrac{2}{1+\cfrac{2}{1}}}$	\cfrac{2}{1+\cfrac{2}{1+\cfrac{2}{1}}}	
\char	©	\char"263a	
\check	ŏe	\check{oe}	
\ch	ch		
\checkmark	✓		
\Chi	X		
\chi	χ		
\choose	$\binom{n+1}{k+2}$	{n+1 \choose k+2}	
\circ	0		
\circeq	<u>•</u>		
\circlearrowleft	Ø	O	
\circlearrowright	Ŏ		
\circledast	*	•	
\circledcirc	⊚		
\circleddash	Θ		
\circledR	®		
\circledS	(S)		
\class	Not supported	A PR is pending.	
\cline	Not supported	Issue #269	
\clubs	*	*	
\clubsuit	*		
\cnums	$\mathbb{C}$		
\colon	:		
\Colonapprox	∷≈		

Symbol/Function	Rendered	Source or Comment
$\colonapprox$	æ	
\coloncolon	::	
$\cline{coloncolonapprox}$	::≈	
\coloncolonequals	::=	
\coloncolonminus	::-	
$\cline{coloncolonsim}$	::~	
\Coloneq	::-	
\coloneq	:-	
\colonequals	<b>:=</b>	
\Coloneqq	::=	
\coloneqq	:=	
\colonminus	:	
\Colonsim	::~	
\colonsim	<b>:</b> ∼	
\color	AaBb123	\color{#0000FF} AaBb123
\colorbox	Black on red	\colorbox{red}{Black on red}
$\complement$	C	
\Complex	$\mathbb{C}$	
\cong	≅	
\Coppa	Not supported	
\coppa	Not supported	
\coprod	П	
\copyright	©	
\cos	cos	
\cosec	cosec	
\cosh	cosh	
\cot	cot	
\cotg	cotg	

Symbol/Function	Rendered	Source or Comment
\coth	coth	
\cr	$egin{array}{ccc} a & b & & & & & & & & & & & & & & & & &$	<pre>\begin{matrix}  a &amp; b \cr  c &amp; d  \end{matrix}</pre>
\csc	csc	
\cssId	Not supported	A PR is pending.
\ctg	ctg	
\cth	cth	
\Cup	W	
\cup	U	
\curlyeqprec	⋞	
\curlyeqsucc	⋟	
\curlyvee	Υ	
\curlywedge	Α	
\curvearrowleft	$\sim$	
\curvearrowright	~	

#### **5** D

Symbol/Function	Rendered	Source or Comment
\dag	†	
\Dagger	‡	
\dagger	†	
\daleth	٦	
\Darr	<b></b>	
$\d$ Arr	<b>ψ</b>	
\darr	<b>\</b>	
{darray}	$egin{array}{ccc} a & b & & & & & & & & & & & & & & & & &$	<pre>\begin{darray}{cc} a &amp; b \\</pre>

Symbol/Function	Rendered	Source or Comment
		[c & d]
		\end{darray}
\dashleftarrow	<b>-</b>	
\dashrightarrow	>	
\dashv	⊣	
\dbinom	$\binom{n}{k}$	\dbinom n k
\dblcolon	::	
{dcases}	$egin{cases} a &  ext{if } b \ c &  ext{if } d \end{cases}$	<pre>\begin{dcases}  a &amp;\text{if } b \\ c &amp;\text{if } d  \end{dcases}</pre>
\ddag	‡	
\ddagger	‡	
$\d$ dddot	Not supported	
\dddot	Not supported	
\ddot	¨x	\ddot x
$\dot{ddots}$	·.	
$\verb \DeclareMathOperator  $	Not supported	
\def	$x^2+x^2$	$\left(\frac{x^2}{ \sqrt{y^2}} + \frac{y^2}{ \sqrt{y^2}} \right)$
\definecolor	Not supported	Issue #750
$\backslash \deg$	deg	
\degree	0	
\delta	δ	
\Delta	Δ	
\det	det	
\Digamma	Not supported	
\digamma	F	
\dfrac	$rac{a-1}{b-1}$	\dfrac{a-1}{b-1}
\diagdown	\	

Symbol/Function	Rendered	Source or Comment
\diagup	/	
\Diamond	<b>♦</b>	
\diamond	<b>&gt;</b>	
\diamonds	<b>♦</b>	
\diamondsuit	<b>♦</b>	
\dim	dim	
\displaylines	Not supported	
\displaystyle	$\sum_{0}^{n}$	\displaystyle\sum_0^n
\div	÷	
\divideontimes	*	
\dot	$\dot{x}$	\dot x
\Doteq	÷	
\doteq	Ė	
\doteqdot	÷	
\dotplus	÷	
\dots	$x_1 + \cdots + x_n$	x_1 + \dots + x_n
\dotsb	$x_1 + \cdots + x_n$	x_1 +\dotsb + x_n
\dotsc	$x, \dots, y$	x,\dotsc,y
\dotsi	$\int_{A_1} \int_{A_2} \dots$	$\label{limit_{A_1}\in A_2} $$ \left( \int_{A_2} \cdot A_2 \right) dotsi $$ $$ int_{A_2} \to A_2. $$$
$\setminus dotsm$	$x_1x_2\cdots x_n$	\$x_1 x_2 \dotsm x_n
\dotso		
\doublebarwedge	⊼	
\doublecap	M	
\doublecup	W	
\Downarrow	<b>\</b>	
$\downarrow$	<b>↓</b>	
\downdownarrows	<b>1</b> 1	

Symbol/Function	Rendered	Source or Comment
$\verb \downharpoonleft $	1	
$\verb \downharpoonright $	l	
$\{dreases\}$	$egin{pmatrix} a &  ext{if } b \\ c &  ext{if } d \end{pmatrix}$	<pre>\begin{drcases}  a &amp;\text{if } b \\ c &amp;\text{if } d  \end{drcases}</pre>

# 6 E

Symbol/ Function	Rendered	Source or Comment
\edef	a	lem:lem:lem:lem:lem:lem:lem:lem:lem:lem:
\ell	$\ell$	
\else	Not supported	Issue #1003
$\ensuremath{\operatorname{em}}$	Not supported	
$\backslash \mathrm{emph}$	Not supported	
$\backslash \mathrm{empty}$	0	
$\backslash \mathrm{emptyset}$	0	
$\backslash enclose$	Not supported	Non standard
\end	$egin{array}{cccccccccccccccccccccccccccccccccccc$	<pre>\begin{matrix}  a &amp; b \\ c &amp; d  \end{matrix}</pre>
\endgroup	ParseError: KaTeX parse error: Expected '}', got '\en dgroup' at position 3: {a\endgroup	{a\endgroup
\enspace	a b	a\enspace b
\Epsilon	E	
\epsilon	ε	
\eqalign	Not supported	
\eqalignno	Not supported	
\eqcirc	-	

Symbol/ Function	Rendered		Source or Comment
\Eqcolon	-::		
\eqcolon	-:		
{equation}	a=b+c	(5)	<pre>\begin{equation}  a = b + c  \end{equation}</pre>
{equatio n*}	a=b+c		<pre>\begin{equation*}  a = b + c  \end{equation*}</pre>
{eqnarray}	Not supported		
\Eqqcolon	=::		
\eqqcolon	=:		
\eqref	Not supported		Issue #350
$\operatorname{\ensuremath{\backslash}}\operatorname{eqsim}$	≂		
\eqslantgtr	≽		
\eqslantles s	<		
\equalscolo	=:		
\equalscolo ncolon	=::		
\equiv	≡		
\Eta	Н		
\eta	η		
$\backslash \mathrm{eth}$	ð		
\euro	Not supported		
\exist	3		
\exists	3		
\exp	exp		
\expandafter			

#### 7 F

Symbol/Function	Rendered	Source or Comment
\fallingdotseq	<b>=</b> ,	
\fbox	Hi there!	\fbox{Hi there!}
\fcolorbox	A	\fcolorbox{red}{aqua}{A}
\fi	Not supported	Issue #1003
\Finv	4	
\flat	b	
\footnotesize	footnote size	\footnotesize footnotesize
\forall	$\forall$	
\frac	$\frac{a}{b}$	\frac a b
\frak	AaBb	\frak{AaBb}
\frown	$\sim$	
\futurelet		

# 8 G

Symbol/Function	Rendered	Source or Comment
\Game	Э	
\Gamma	Γ	
\gamma	γ	
$\{gather\}$	$a=b \qquad (6)$ $e=b+c  (7)$	<pre>\begin{gather}  a=b \\ e=b+c  \end{gather}</pre>
$\{ { m gathered} \}$	$egin{aligned} a &= b \ e &= b + c \end{aligned}$	<pre>\begin{gathered}  a=b \\ e=b+c  \end{gathered}</pre>
\gcd	$\operatorname{gcd}$	

Symbol/Function	Rendered	Source or Comment
\gdef	$y^2+y^2$	\gdef\bar#1{#1^2} \bar{y} + \bar{y}
\ge	≥	
\geneuro	Not supported	
\geneuronarrow	Not supported	
\geneurowide	Not supported	
\genfrac	$\left(rac{a}{a+1} ight]$	\genfrac ( ] {2pt}{0}a{a+1}
\geq	≥	
\geqq	≧	
\geqslant	≽	
\gets	←	
\gg	>>	
\ggg	<b>&gt;&gt;&gt;</b>	
\gggtr	<b>&gt;&gt;&gt;</b>	
\gimel	נ	
\global	2+3	\global\def\add#1#2{#1+#2} \add 2 3
\gnapprox	≩	
\gneq	<b>&gt;</b>	
\gneqq	≩	
\gnsim	<i></i> ≈	
\grave	èu	\grave{eu}
\gt	a > b	a \gt b
\gtrdot	>	
\gtrapprox	<i>≳</i> ≋	
\gtreqless	<u> </u>	
\gtreqqless	≧	
\gtrless	≷	
\gtrsim	≳	
\gvertneqq	≩	

#### 9 H

Symbol/Functi on	Rendered	Source or Comment
\H	"a	\text{\H{a}}
\Harr	$\Leftrightarrow$	
$\hrack {hArr}$	$\Leftrightarrow$	
\harr	$\leftrightarrow$	
\hat	$\hat{ heta}$	\hat{\theta}
\hbar	ħ	
\hbox	\$\hbox{\$x^2\$}\$	\hbox{\\$x^2\\$}
\hbox to	Not supported	
\hdashline	$\frac{a}{c}$ $\frac{b}{d}$	<pre>\begin{matrix}  a &amp; b \\     \hdashline  c &amp; d  \end{matrix}</pre>
\hearts	$\Diamond$	
\heartsuit	$\Diamond$	
\hfil	Not supported	
\hfill	Not supported	Issues #164 & #269
\hline	$rac{a}{c} rac{b}{d}$	<pre>\begin{matrix}  a &amp; b \\ \hline  c &amp; d  \end{matrix}</pre>
\hom	hom	
\hookleftarrow	$\leftarrow$	
\hookrightarrow	$\hookrightarrow$	
\hphantom	a $d$	a\hphantom{bc}d
\href	\href	\href{https://katex.org/}{\KaTeX} Requires trust option
\hskip	$w  i  \  \  d$	w\hskip1em i\hskip2em d
\hslash	ħ	

Symbol/Functi on	Rendered	Source or Comment
\hspace	\$s\hspace7ex k\$	s\hspace7ex k
\htmlClass	\htmlClass	\htmlClass{foo}{x} Must enable trust and disable strict option
\htmlData	\htmlData	\htmlData{foo=a, bar=b}{x} Must enable trust and disable strict option
\htmlId	\htmlId	\htmlId{bar}{x} Must enable trust and disable strict option
\htmlStyle	\htmlStyle	\htmlStyle{color: red;}{x} Must enable trust and disable strict o
\huge	huge	\huge huge
\Huge	$huge \ Huge$	\Huge Huge

### *10* I

Symbol/Function	Rendered	Source or Comment
\i	1	\i
\idotsint	Not supported	
\iddots	Not supported	Issue #1223
\if	Not supported	Issue #1003
\iff	$A \iff B$	A\iff B
\ifmode	Not supported	Issue #1003
\ifx	Not supported	Issue #1003
\iiiint	Not supported	
\iiint	<i>sss</i>	
\iint	ſſ	
\Im	3	
\image	3	
\imageof	<b>⊷</b> ○	
\imath	ı	
\implied by	$P \longleftarrow Q$	P\impliedby Q

Symbol/Function	Rendered	Source or Comment
\implies	$P \implies Q$	P\implies Q
\in	€	
\inf	inf	
\infin	$\infty$	
\infty	$\infty$	
\injlim	inj lim	\injlim
\int	ſ	
\intercal	Т	
\intop	ſ	
\Iota	I	
\iota	L	
\isin	€	
\it	AaBb	{\it AaBb}
\itshape	Not supported	

#### 11 JK

Symbol/Function	Rendered	Source or Comment
\j	J	\j
\jmath	J	
\Join	M	
\Kappa	К	
\kappa	$\kappa$	
\KaTeX	K <sup>A</sup> T <sub>E</sub> X	
\ker	ker	
\kern	IR	I\kern-2.5pt R
\Ket	$ \psi angle$	\Ket{\psi}
\ket	$ \psi angle$	\ket{\psi}
\Koppa	Not supported	

Symbol/Function	Rendered	Source or Comment
\koppa	Not supported	

# *12* L

Symbol/Function	Rendered	Source or Comment
\L	Not supported	
\1	Not supported	
\Lambda	Λ	
\lambda	λ	
\label	Not supported	
\land	^	
\lang	$\langle A  angle$	\lang A\rangle
\langle	$\langle A  angle$	\langle A\rangle
\Larr	<b>\( =</b>	
\lArr	<b>\( =</b>	
\larr	<b>←</b>	
\large	large	\large large
\Large	Large	\Large Large
\LARGE	LARGE	\LARGE LARGE
\LaTeX	I≜T <sub>E</sub> X	
\lBrace	{	
\lbrace	{	
\lbrack	[	
\lceil	ſ	
\ldotp		
\ldots		
\le	<u>≤</u>	
\leadsto	~	

Symbol/Function	Rendered	Source or Comment
\left	$\left\{rac{a}{b} ight.$	<pre>\left\lbrace \dfrac ab \right.</pre>
\leftarrow	<b>←</b>	
\Leftarrow	<b>\( </b>	
\LeftArrow	Not supported	Non standard
\leftarrowtail	Not supported	
\leftharpoondown	<del></del>	
\leftharpoonup	_	
\leftleftarrows	⊱	
\Leftrightarrow	$\Leftrightarrow$	
\leftrightarrow	$\leftrightarrow$	
\leftrightarrows	$\leftrightarrows$	
\leftrightharpoons	<b>≒</b>	
\leftrightsquigarrow	<del>\</del>	
\leftroot	Not supported	
\leftthreetimes	>	
\leq	<u>≤</u>	
\leqalignno	Not supported	
\leqq	≦	
\leqslant	€	
\lessapprox	≨	
\lessdot	⋖	
\lesseqgtr	<u>{</u>	
\lesseqqgtr	<u>\$</u>	
\lessgtr	\$	
\lesssim	≲	
\let		
\lfloor	L	
\lg	lg	

Symbol/Function	Rendered	Source or Comment
\lgroup	(	
\lhd	⊲	
\lim	lim	
\liminf	lim inf	
\limits	$\lim_{x}$	\lim\limits_x
\limsup	lim sup	
\11	«	
\llap	<i>≠</i>	{=}\llap{/}
\llbracket	[	
\llcorner	L	
\Lleftarrow	<b></b>	
\111	<b>«</b>	
\llless	<b>«</b>	
\lmoustache	ſ	
\ln	ln	
\lnapprox	≨	
\lneq	\$	
\lneqq	≨	
\lnot	¬	
\lnsim	Ş	
\log	log	
\long		
\Longleftarrow	←	
\longleftarrow	←	
\Longleftrightarrow	$\iff$	
\longleftrightarrow	$\longleftrightarrow$	
\longmapsto	$\longmapsto$	
\Longrightarrow	$\Rightarrow$	

Symbol/Function	Rendered Source or Comment
\longrightarrow	$\longrightarrow$
\looparrowleft	다
\looparrowright	9->
\lor	V
\lower	Not supported
\lozenge	♦
\lparen	(
\Lrarr	⇔
$\label{lrArr}$	$\Leftrightarrow$
\lrarr	$\leftrightarrow$
\lrcorner	T T
$\operatorname{lq}$	i.
$\Lsh$	Ч
\lt	<
\ltimes	×
\lVert	
\lvert	I.
\lvertneqq	<b>\( </b>

#### *13* M

Symbol/Function	Rendered	Source or Comment
\maltese	Ā	
\mapsto	$\mapsto$	
\mathbb	AB	\mathbb{AB}  KaTeX supports A-Z k
\mathbf	AaBb123	\mathbf{AaBb123}
\mathbin	a!b	a\mathbin{!}b
\mathcal	$\mathcal{A}a\mathcal{B}b123$	\mathcal{AaBb123}

Symbol/Function	Rendered	Source or Comment
\mathchoice	a b	a\mathchoice{}{}{}b
\mathclap	$\displaystyle \sum_{1 \leq i \leq n} \!\! x_i$	lem:lem:lem:lem:lem:lem:lem:lem:lem:lem:
\mathclose	a+(b>+c	a + (b\mathclose\gt + c)
\mathellipsis		
$\mathbb{R}^{n}$	AaBb	\mathfrak{AaBb}  KaTeX supports A-Za-z
\mathinner	$ab  \mathrm{inside}  cd$	ab\mathinner{\text{inside}}cd
\mathit	AaBb	\mathit{AaBb}  KaTeX supports A-Za-z
\mathllap	#	{=}\mathllap{/}
\mathnormal	AaBb	\mathnormal{AaBb}  KaTeX supports A-Za-z
\mathop	$\star_a^b$	\mathop{\star}_a^b
\mathopen	$a+<\!\!b)+c$	a + \mathopen\lt b) + c
\mathord	1,234,567	1\mathord{,}234{,}567
\mathpunct	A-B	A\mathpunct{-}B
\mathrel	$a \ \# \ b$	<pre>a \mathrel{\#} b</pre>
\mathrlap	#	\mathrlap{/}{=}
\mathring	${}^{\circ}a$	\mathring{a}
\mathrm	AaBb123	\mathrm{AaBb123}
\mathscr	AB	\mathscr{AaBb123}  KaTeX supports A-Z
\mathsf	AaBb123	AaBb123
\mathsterling	£	
\mathstrut	$\sqrt{a}$	\sqrt{\mathstrut a}
\mathtip	Not supported	
\mathtt	AaBb123	\mathtt{AaBb123}
\matrix	Not supported	See {matrix}
{matrix}	$egin{array}{ccc} a & b & & & & & & & & & & & & & & & & &$	<pre>\begin{matrix}  a &amp; b \\ </pre>

Symbol/Function	Rendered	Source or Comment	
		c & d \end{matrix}	
{matrix*}	$egin{array}{ccc} 0 & -1 \ -1 & 0 \end{array}$	\begin{matrix*}[r]  0 & -1 \\ -1 & 0  \end{matrix*}	
\max	max		
\mbox	Not supported		
\md	Not supported		
\mdseries	Not supported		
\measuredangle	<u>K</u>		
\medspace	ab	a\medspace b	
\mho	υ		
\mid	$\{x\in\mathbb{R}\mid x>0\}$	\{x \ mid x > 0\}	
\middle	$P\left(A B ight)$	<pre>P\left(A\middle\vert B\right)</pre>	
\min	min		
\minuscolon	-:		
\minuscoloncolon	-::		
\minuso	÷		
\mit	Not supported	See \mathit	
\mkern	a $b$	a\mkern18mu b	
\mmlToken	Not supported		
\mod	$3\equiv 5\!\!\mod 2$	3\equiv 5 \mod 2	
\models	F	=	
\moveleft	Not supported	Not supported	
\moveright	Not supported	Not supported	
	<b></b>		
\mp			
\mp \mskip	a b	a\mskip{10mu}b	
	a b  Not supported	a\mskip{10mu}b	

Symbol/Function	Rendered	Source or Comment
\mu	$\mu$	
\multicolumn	Not supported	Issue #269
$\{$ multiline $\}$	Not supported	
\multimap	<b>-</b> ∘	

#### 14 N

Symbol/Function	Rendered	Source or Comment
\N	N	
\nabla	$\nabla$	
\natnums	N	
\natural	Ь	
\negmedspace	do	a\negmedspace b
\ncong	≆	
\ne	<i>≠</i>	
\nearrow	7	
\neg	-	
\negthickspace	$d_{\mathcal{D}}$	a\negthickspace b
\negthinspace	db	a\negthinspace b
\neq	<i>≠</i>	
\newcommand	✓	<pre>\newcommand\chk{\checkmark} \chk</pre>
\newenvironment	Not supported	Issue #37
\Newextarrow	Not supported	
\newline	a	a\newline b
	<i>b</i>	
\nexists	<b>#</b>	
\ngeq	≱	
\ngeqq	≱	
\ngeqslant	*	

Symbol/Function	Rendered	Source or Comment
\ngtr	<i>&gt;</i>	
\ni	Э	
\nleftarrow	₩	
\nLeftarrow	#	
$\verb \nLeftrightarrow $	<b>⇔</b>	
\nleftrightarrow	<del>⟨/⟩</del>	
\nleq	≰	
\nleqq	≰	
\nleqslant	*	
\nless	*	
\nmid	ł	
\nobreak		
\nobreakspace	$a\ b$	a\nobreakspace b
\noexpand		
\nolimits	$\lim_x$	\lim\nolimits_x
\nonumber	a = b + c $d + e = f$ (8)	<pre>\begin{align}  a&amp;=b+c \nonumber\\ d+e&amp;=f  \end{align}</pre>
\normalfont	Not supported	
\normalsize	normal size	\normalsize normalsize
\not	<i>≠</i>	\not = \
\notag	a = b + c $d + e = f $ (9)	<pre>\begin{align}  a&amp;=b+c \notag\\ d+e&amp;=f  \end{align}</pre>
\notin	∉	
\notni	∌	
\nparallel	#	
\nprec	*	

Symbol/Function	Rendered Source or Comment
\npreceq	≠
\nRightarrow	<i>→</i>
\nrightarrow	<del>-/)</del>
\nshortmid	₹
\nshortparallel	н
\nsim	×
\nsubseteq	⊈
\nsubseteqq	⊈
\nsucc	¥
\nsucceq	<b>≱</b>
\nsupseteq	⊉
\nsupseteqq	<b>≱</b>
\ntriangleleft	⊅
\ntrianglelefteq	⊉
\ntriangleright	▶
\ntrianglerighteq	⊭
\Nu	N
\nu	ν
$\nVDash$	⊯
\nVdash	₩
\nvDash	¥
\nvdash	¥
\nwarrow	Κ,

#### 0

Symbol/Function	Rendered	Source or Comment
\O	Ø	\0
\0	ø	\o

Symbol/Function	Rendered	Source or Comment
\odot	⊙	
\OE	Œ	\OE
\oe	œ	\oe
\officialeuro	Not supported	
\oiiint	<b>M</b>	
\oiint	ſſ	
\oint	∮	
\oldstyle	Not supported	
\omega	$\omega$	
\Omega	Ω	
\Omicron	O	
\omicron	o	
\ominus	θ	
\operatorname	asin x	\operatorname{asin} x
\operatorname*	$ asin_y x $	\operatorname*{asin}\limits_y x
$\verb \operatorname with limits $	asin x	\operatornamewithlimits{asin}\limits_y x
\oplus	0	
\or	Not supported	
\origof	0-●	
\oslash	0	
\otimes	8	
\over	$rac{a+1}{b+2}+c$	{a+1 \over b+2}+c
\overbrace	$\overbrace{x+\cdots+x}^{n  ext{ times}}$	<pre>\overbrace{x+\cdots+x}^{n\text{ times}}</pre>
\overbracket	Not supported	
\overgroup	$\widehat{AB}$	\overgroup{AB}
\overleftarrow	$\overleftarrow{AB}$	\overleftarrow{AB}
\overleftharpoon	<del>\( \alpha \) \( \</del>	\overleftharpoon{AB}
\overleftrightarrow	$\overleftrightarrow{AB}$	\overleftrightarrow{AB}

Symbol/Function	Rendered	Source or Comment
\overline	a long argument	<pre>\overline{\text{a long argument}}</pre>
\overlinesegment	$\overleftarrow{AB}$	\overlinesegment{AB}
\overparen	Not supported	See \overgroup
\Overrightarrow	$\overrightarrow{\overline{AB}}$	\Overrightarrow{AB}
\overrightarrow	$\overrightarrow{AB}$	\overrightarrow{AB}
$\overright$ harpoon	$\overline{ac}$	\overrightharpoon{ac}
\overset	<u>!</u>	\overset{!}{=}
\overwithdelims	Not supported	
\owns	Э	

#### *16* P

Symbol/Function	Rendered	Source or Comment
\P	•	\P
\pagecolor	Not supported	Deprecated
\parallel	II	
\part	Not supported	Deprecated
\partial	$\partial$	
\perp	Т	
\phantom	$\Gamma_{i\;k}^{\;j}$	$\label{local_gamma} $$ \operatorname{\mathcal{j}}_{i\sigma}_{i\phi}(j) = (i\phi_{i\phi})^{-1} .$
\phase	<u>/-78°</u>	\phase{-78^\circ}
\Phi	Φ	
\phi	$\phi$	
\Pi	П	
\pi	$\pi$	
{picture}	Not supported	
\pitchfork	ф	
\plim	plim	
\plusmn	±	

Symbol/Function	Rendered	Source or Comment
\pm	±	
\pmatrix	Not supported	See {pmatrix}
{pmatrix}	$\begin{pmatrix} a & b \\ c & d \end{pmatrix}$	<pre>\begin{pmatrix}  a &amp; b \\ c &amp; d  \end{pmatrix}</pre>
{pmatrix*}	$\begin{pmatrix} 0 & -1 \\ -1 & 0 \end{pmatrix}$	\begin{pmatrix*}[r]  0 & -1 \\ -1 & 0  \end{pmatrix*}
\pmb	μ	\pmb{\mu}
\pmod	$x \pmod{a}$	x\pmod a
\pod	x $(a)$	x \pod a
\pounds	£	
$\Pr$	Pr	
\prec	~	
\precapprox	<del>≈</del>	
\preccurlyeq	≼	
\preceq	≾	
\precnapprox	<del>≨</del>	
\precneqq	<b>≱</b>	
\precnsim	⋨	
\precsim	≾	
\prime	1	
\prod	П	
\projlim	proj lim	\projlim
\propto	∝	
\providecommand	Hello	<pre>\providecommand\greet{\text{Hello}} \greet</pre>
\psi	$\psi$	
\Psi	Ψ	

Symbol/Function	Rendered	Source or Comment
\pu	$123 \; rac{ ext{kJ}}{ ext{mol}}$	\pu{123 kJ//mol} Requires an extension

# 17 QR

Symbol/Function	Rendered	Source or Comment
\Q	Not supported	See \Bbb{Q}
\qquad	$a \qquad b$	a\qquad\qquad{b}
	a $b$	a{b}
\R	$\mathbb{R}$	
\r	°a	\text{\r{a}}
\raise	Not supported	See \raisebox
\raisebox	$h{ m ighe}_r$	h\raisebox{2pt}{\$ighe\$}r
rang	$\langle A  angle$	\langle A\rang
rangle	$\langle A  angle$	\langle A\rangle
\Rarr	⇒	
$\rder$ rArr	⇒	
\rarr	$\rightarrow$	
\ratio	:	
\rBrace	}	
\rbrace	}	
\rbrack	1	
{rcases}	$\left. egin{array}{ll} a &  ext{if } b \ c &  ext{if } d \end{array} \right\}$	<pre>\begin{rcases}  a &amp;\text{if } b \\ c &amp;\text{if } d  \end{rcases}</pre>
\rceil	1	
\Re	Я	
\real	$\Re$	
\Reals	$\mathbb{R}$	

Symbol/Function	Rendered	Source or Comment
\reals	IR	
\ref	Not supported	Issue #350
\relax		
\renewcommand	Ahoy!	<pre>\def\hail{Hi!} \renewcommand\hail{\text{Ahoy!}} \hail</pre>
$\verb \renewenvironment $	Not supported	
\require	Not supported	
\restriction	1	
\rfloor	J	
\rgroup	)	
\rhd	$\triangleright$	
\Rho	P	
\rho	ρ	
\right	$\left( rac{a}{b}  ight)$	<pre>\left.\dfrac a b\right)</pre>
$\Rightarrow$	⇒	
\rightarrow	$\rightarrow$	
$\verb \rightarrowtail $	$\rightarrow$	
$\verb \right  harpoon down$	7	
$\verb \right  harpoonup$		
$\verb \rightleftarrows $	⇄	
$\verb \right  left harpoons$	<del>=</del>	
$\verb \right right arrows  $	$\Rightarrow$	
\rightsquigarrow	~ <del>-</del>	
\rightthreetimes	*	
\risingdotseq	<b>≓</b>	
\rlap	<b>≠</b>	\rlap{/}{=}
\rm	AaBb12	\rm AaBb12
\rmoustache	l	

Symbol/Function	Rendered	Source or Comment		
\root	Not supported	Not supported		
\rotatebox	Not supported	Issue #681		
\rparen	)	)		
$\rq$	,	,		
\rrbracket	1	]		
\Rrightarrow	⇒	⇒		
$\Rsh$	أ	l <sup>3</sup>		
\rtimes	×			
\Rule	Not supported	see \rule		
\rule	$x^{-}x$	x\rule[6pt]{2ex}{1ex}x		
$\r$ Vert	П			
\rvert	1			

# 18 S

Symbol/Function	Rendered	Source or Comment
\S	§	\S
\Sampi	Not supported	
\sampi	Not supported	
\sc	Not supported	Issue #471
\scalebox	Not supported	
\scr	Not supported	See \mathscr
\scriptscriptstyle	<u>c</u>	\scriptscriptstyle \frac cd
\scriptsize	scriptsize	\scriptsize scriptsize
\scriptstyle	$\frac{a}{b} + \frac{c}{d}$	\frac ab + {\scriptstyle \frac cd}
\sdot		
\searrow	¥	
\sec	sec	
\sect	§	\sect

Symbol/Function	Rendered	Source or Comment
\setlength	Not supported	Issue #687
\setminus	\	
\sf	AaBb123	\sf AaBb123
\sharp	#	
\shortmid	ı	
\shortparallel	П	
\shoveleft	Not supported	
\shoveright	Not supported	
\sideset	Not supported	
\Sigma	Σ	
\sigma	$\sigma$	
\sim	~	
\simcolon	~:	
\simcoloncolon	~::	
\simeq	~	
\sin	sin	
\sinh	sinh	
\sixptsize	sixptsize	\sixptsize sixptsize
\sh	sh	
\skew	Not supported	
\skip	Not supported	
\sl	Not supported	
\small	small	\small small
\smallfrown	^	
\smallint	ſ	
$\{smallmatrix\}$	$egin{array}{c} a & b \\ c & d \end{array}$	<pre>\begin{smallmatrix}  a &amp; b \\ c &amp; d  \end{smallmatrix}</pre>

Symbol/Function	Rendered	Source or Comment
\smallsetminus	_	
\smallsmile	$\sim$	
\smash	$(x^2)$	<pre>\left(x^{\smash{2}}\right)</pre>
\smile	$\smile$	
\smiley	Not supported	
\sout	abe	\sout{abc}
\Space	Not supported	see \space
\space	ab	a\space b
\spades	•	
\spadesuit	<b>.</b>	
\sphericalangle	∢	
$\{ ext{split}\}$	$egin{aligned} a &= b + c \ &= e + f \end{aligned}$ (10)	<pre>\begin{equation} \begin{split}  a &amp;=b+c\\ &amp;=e+f  \end{split} \end{equation}</pre>
\sqcap	П	
\sqcup	Ц	
\square		
\sqrt	$\sqrt[3]{x}$	\sqrt[3]{x}
\sqsubset	С	
\sqsubseteq	⊑	
\sqsupset	<b>ا</b>	
\sqsupseteq	⊒	
\ss	a	\ss
\stackrel	<u>!</u>	\stackre1{!}{=}
\star	*	
\Stigma	Not supported	
\stigma	Not supported	

Symbol/Function	Rendered	Source or Comment
\strut	Not supported	
\style	Not supported	Non standard
\sub	C	
{subarray}	Not supported	
\sube	⊆	
\Subset	€	
\subset	С	
\subseteq	⊆	
\subseteqq	⊆	
\subsetneq	Ç	
\subsetneqq	Ç ≠	
\substack	$\sum_{\substack{0 < i < m \\ 0 < j < n}}$	$\label{lem_substack} $$\sum_{s=0}^{s=0} (sum_{s}substack{0$
\succ	>	
\succapprox	≿	
\succcurlyeq	≽	
\succeq	≽	
\succnapprox	≿	
\succneqq	<del>`</del>	
\succnsim	<i>≿</i>	
\succsim	≿	
\sum	Σ	
\sup	sup	
\supe	2	
\Supset	∋	
\supset	D	
\supseteq	<u> </u>	
\supseteqq	⊇	

Symbol/Function	Rendered Source or Comment
\supsetneq	<b>⊋</b>
\supsetneqq	$\supseteq$
\surd	$\checkmark$
\swarrow	∠

# *19* T

Symbol/Function	Rendered	Source or Comment
\tag	$a^2 + b^2 = c^2 \ \ (3.1c)$	\tag{3.1c} a^2+b^2=c^2
\tag*	$a^2+b^2=c^2$ 3.1c	\tag*{3.1c} a^2+b^2=c^2
\tan	tan	
\tanh	tanh	
\Tau	Т	
\tau	τ	
\tbinom	$\binom{n}{k}$	\tbinom n k
$\TeX$	TEX	
\text	yes & no	<pre>\text{ yes }\&amp;\text{ no }</pre>
\textasciitilde	~	\textasciitilde
\textasciicircum	^	\textasciicircum
\textbackslash	\	\textbackslash
\textbar	I	\textbar
\textbardbl	П	\textbardbl
\textbf	AaBb123	\textbf{AaBb123}
\textbraceleft	{	\textbraceleft
\textbraceright	}	\textbraceright
\textcircled	(a)	<pre>\text{\textcircled a}</pre>
\textcolor	F=ma	\textcolor{blue}{F=ma}
\textdagger	†	\textdagger

Symbol/Function	Rendered	Source or Comment
\textdaggerdbl	‡	\textdaggerdbl
\textdegree	۰	\textdegree
\textdollar	\$	\textdollar
\textellipsis		\textellipsis
\textemdash	_	\textemdash
\textendash	_	\textendash
\textgreater	>	\textgreater
\textit	AaBb	\textit{AaBb}
\textless	<	<pre>\text{\textless}</pre>
\textmd	AaBb123	\textmd{AaBb123}
\textnormal	AB	\textnormal{AB}
\textquotedblleft	ш	<pre>\text{\textquotedblleft}</pre>
$\verb \textquotedb   right$	"	<pre>\text{\textquotedblright}</pre>
\textquoteleft	ć.	<pre>\text{\textquoteleft}</pre>
\textquoteright	,	<pre>\text{\textquoteright}</pre>
\textregistered	R	\textregistered
\textrm	AaBb123	\textrm{AaBb123}
\textsc	Not supported	Issue #471
\textsf	AaBb123	\textsf{AaBb123}
\textsl	Not supported	
\textsterling	£	<pre>\text{\textsterling}</pre>
\textstyle	$\sum_{0}^{n}$	\textstyle\sum_0^n
\texttip	Not supported	
\texttt	AaBb123	\texttt{AaBb123}
\textunderscore	_	\textunderscore
\textup	AaBb123	\textup{AaBb123}
\textvisiblespace	Not supported	
\tfrac	$\frac{a}{b}$	\tfrac ab

Symbol/Function	Rendered	Source or Comment	
\tg	tg		
$ackslash  ag{th}$	th		
\therefore			
\Theta	Θ		
\theta	$\theta$		
\thetasym	$\vartheta$		
$\t$ thickapprox	≈		
\thicksim	~		
\thickspace	$a\ b$	a\thickspace b	
\thinspace	ab	a\thinspace b	
\tilde	$ ilde{M}$	\tilde M	
\times	×		
\Tiny	Not supported	see \tiny	
\tiny	tiny	\tiny tiny	
\to	$\rightarrow$		
\toggle	Not supported		
\top	Т		
\triangle	Δ		
\triangledown	$\nabla$		
\triangleleft	△		
\trianglelefteq	⊴		
\triangleq	≜		
\triangleright	⊳		
\trianglerighteq	⊵		
\tt	AaBb123	{\tt AaBb123}	
$\t$ twoheadleftarrow	<del>~</del>		
$\verb \twoheadrightarrow  $	<b>→</b>		

#### *20* U

Symbol/Function	Rendered	Source or Comment
\u	ă	\text{\u{a}}
\Uarr	$\uparrow$	
$\uArr$	$\uparrow$	
\uarr	<b>↑</b>	
\ulcorner	Г	
\underbar	<u>X</u>	\underbar{X}
\underbrace	$\underbrace{x+\cdots+x}_{n \text{ times}}$	\underbrace{x+···+x}_{n\text{ times}}
\underbracket	Not supported	
\undergroup	AB	\undergroup{AB}
$\under left arrow$	<u>AB</u>	\underleftarrow{AB}
$\verb \underleftrightarrow  $	$\overset{AB}{\longleftrightarrow}$	\underleftrightarrow{AB}
\underrightarrow	$\xrightarrow{AB}$	\underrightarrow{AB}
\underline	a long argument	<pre>\underline{\text{a long argument}}</pre>
\underlinesegment	<u>AB</u>	\underlinesegment{AB}
\underparen	Not supported	See \undergroup
\underrightarrow	$\xrightarrow{AB}$	\underrightarrow{AB}
\underset	<u>=</u> !	<pre>\underset{!}{=}</pre>
\unicode	Not supported	
\unlhd	⊴	
\unrhd	⊵	
\up	Not supported	
\Uparrow	<b>↑</b>	
\uparrow	<b>†</b>	
\Updownarrow	<b>‡</b>	
\updownarrow	<b>‡</b>	
\upharpoonleft	1	

Symbol/Function	Rendered	Source or Comment
\upharpoonright	1	
\uplus	₩	
\uproot	Not supported	
\upshape	Not supported	
\Upsilon	Υ	
\upsilon	v	
\upuparrows	11	
\urcorner	٦	
\url	<u>\url</u>	\url{https://katex.org/} Requires trust option
\utilde	AB	\utilde{AB}

# 21 V

Symbol/Function	Rendered	Source or Comment
\v	ďa	\text{\v{a}}
\varcoppa	Not supported	
\varDelta	Δ	
\varepsilon	ε	
\varGamma	Γ	
\varinjlim	$\varinjlim$	\varinjlim
\varkappa	х	
\varLambda	Λ	
\varliminf	<u>lim</u>	\varliminf
\varlimsup	lim	\varlimsup
\varnothing	Ø	
\varOmega	Ω	
\varPhi	Φ	
\varphi	arphi	
\varPi	П	

Symbol/Function	Rendered	Source or Comment
\varpi	$\overline{\omega}$	
\varprojlim	<u>lim</u>	\varprojlim
\varpropto	α	
\varPsi	$\Psi$	
\varrho	ρ	
\varSigma	$\Sigma$	
\varsigma	ς	
\varstigma	Not supported	
\varsubsetneq	⊊	
\varsubsetneqq	≨	
\varsupsetneq	⊋	
\varsupsetneqq	⊋	
\varTheta	Θ	
\vartheta	$\vartheta$	
\vartriangle	Δ	
$\vert_{ m riangle}$	⊲	
$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	⊳	
\varUpsilon	Υ	
\varXi	Ξ	
\vcentcolon	:=	<pre>\mathrel{\vcentcolon =}</pre>
\vcenter	$a+\left(rac{a}{b} ight)$	<pre>a+\left(\vcenter{\hbox{\$\frac{\frac a b}c\$}}\right) TeX (strict) syntax</pre>
\vcenter	$a+\left(rac{a}{b} ight)$	<pre>a+\left(\vcenter{\frac{\frac a b}c}\right) non-strict syntax</pre>
\Vdash	⊩	
\vDash	Þ	
\vdash	⊢	
\vdots	÷	
\vec	$ec{F}$	\vec{F}

Symbol/Function	Rendered	Source or Comment
\vee	V	
\veebar	V	
\verb	\frac a b	<pre>\verb!\frac a b!</pre>
\Vert		
\vert	I	
\vfil	Not supported	
\vfill	Not supported	
\vline	Not supported	Issue #269
$\{V_{ m matrix}\}$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	<pre>\begin{Vmatrix}  a &amp; b \\ c &amp; d  \end{Vmatrix}</pre>
{Vmatrix*}		\begin{Vmatrix*}[r]  0 & -1 \\ -1 & 0  \end{Vmatrix*}
{vmatrix}	$egin{array}{ccc}  && \\  a&b \\  c&d  \end{array}$	<pre>\begin{vmatrix}  a &amp; b \\ c &amp; d  \end{vmatrix}</pre>
{vmatrix*}	$\begin{vmatrix} & &   \\ & 0 & -1 \\  -1 & 0   \end{vmatrix}$	\begin{vmatrix*}[r]  0 & -1 \\ -1 & 0  \end{vmatrix*}
\vphantom	$\overline{a}$	\overline{\vphantom{M}a}
\Vvdash	II⊢	

# 22 W

Symbol/Function	Rendered	Source or Comment
\wedge	٨	
\weierp	p	

Symbol/Function	Rendered	Source or Comment
\widecheck	AB	\widecheck{AB}
\widehat	AB	\widehat{AB}
\wideparen	Not supported	Issue #560
\widetilde	AB	\widetilde{AB}
\wp	Ø	
\wr	ł	

# 23 X

Symbol/Function	Rendered	Source or Comment
\xcancel	ABC	\xcancel{ABC}
\xdef	a	$\label{local} $$ \left( \frac{a}\xdef\bar{\{ \oo} \def\foo{\} \bar} \right) $$$
\Xi	Ξ	
\xi	ξ	
\xhookleftarrow	$\stackrel{abc}{\longleftarrow}$	\xhookleftarrow{abc}
\xhookrightarrow	$\stackrel{cabc}{\longleftrightarrow}$	\xhookrightarrow{abc}
\xLeftarrow	$\stackrel{abc}{\longleftarrow}$	\xLeftarrow{abc}
\xleftarrow	$\leftarrow \frac{abc}{}$	\xleftarrow{abc}
\xleftharpoondown	abc	\xleftharpoondown{abc}
\xleftharpoonup	<u>abc</u>	\xleftharpoonup{abc}
\xLeftrightarrow	$\stackrel{abc}{\Longleftrightarrow}$	\xLeftrightarrow{abc}
\xleftrightarrow	$\stackrel{abc}{\longleftrightarrow}$	\xleftrightarrow{abc}
\xleftrightharpoons	$\angle abc$	\xleftrightharpoons{abc}
\xlongequal	<u>abc</u>	\xlongequal{abc}
\xmapsto	$\stackrel{abc}{\longmapsto}$	\xmapsto{abc}
\xRightarrow	$\xrightarrow{abc}$	\xRightarrow{abc}
\xrightarrow	$\xrightarrow{abc}$	\xrightarrow{abc}
$\xrightharpoondown$	abc	\xrightharpoondown{abc}
\xrightharpoonup	abc	\xrightharpoonup{abc}

Symbol/Function	Rendered	Source or Comment
$\verb \xright  left harpoons$	$\stackrel{abc}{\longleftarrow}$	\xrightleftharpoons{abc}
\xtofrom	$\xrightarrow{abc}$	\xtofrom{abc}
$\verb \xtwoheadleftarrow  $	<i>≪</i> abc	\xtwoheadleftarrow{abc}
$\xspace$ xtwoheadrightarrow	$\stackrel{abc}{-\!$	\xtwoheadrightarrow{abc}

### **24** YZ

Symbol/Function	Rendered	Source or Comment
\yen	¥	
\Z	$\mathbb{Z}$	
\Zeta	z	
\zeta	ζ ^	

$$f(x)=\int_{-\infty}^{\infty}f\xi\,e^{2\pi i\xi x}\,d\xi$$

$$x=rac{-b\pm\sqrt{b^2-4ac}}{2a}$$