

$\lim_{x \rightarrow b} a$	lim from {x toward b} a	$a_b a^b$	a_b, a^b
$\sum_{i=0}^{\infty} a_i, \prod a$	sum from {i = 0} to {infinity} a_i, prod a	<i>Hello world</i> ρ a B	stack{ Hello world # alignl %rho#alignc a # alignr B }
$\int_{\alpha}^{\beta} \Gamma(x) dx$	int from {%alpha} to {%beta} %GAMMA(x) dx	<i>stuff stuff</i>	stuff `stuff stuff~stuff
$\iint a dS \iiint a dV$	iint a dS, iiint a dV	<i>stuff stuff</i>	
$\oint \vec{a} \cdot d\vec{l}$	lint vec a cdot vec dl	$\pm 1 \mp 1$	+ -1, - +1
$\frac{\partial^2 f}{\partial x^2}$	{partial^2 f} over {partial x^2}	$a \cdot b \ a \times b \ a \div b$	a cdot b, a times b, a div b
$\vec{a} \ \hat{a} \ \bar{a} \ \breve{a}$	vec a, hat a, bar a, breve a	$a \circ b \ \neg a$	a circ b, neg a
$\acute{a} \ \grave{a} \ \check{a} \ \text{\AA} \ \tilde{a}$	acute a, grave a, check a, circle a, tilde a	$a = b \ a \neq 2 \ a \equiv b$	a = b, a <> b, a equiv b
$\vec{abc} \ \widetilde{abc} \ \widehat{abc}$	widevec abc, widetilde abc, widehat abc	$a \approx 2 \ a \sim b \ a \simeq b$	a approx 2, a sim b, a simeq b
$\dot{a} \ \ddot{a} \ \dddot{a}$	dot a, ddot a, dddot a	$a \parallel b \ a \perp b$	a parallel b, a ortho b
$\overline{ab} \ \underline{ab} \ \overline{\overline{ab}}$	overline ab, underline ab, overstrike ab	$a \leq b \ a \ll b$	a <= b, a << b
∞	infinity	$a \geq b \ a \gg b$	a >= b, a >> b
$\partial \ \nabla$	partial, nabla	$a \propto b \ a \stackrel{\text{def}}{=} b$	a prop b, a def b
$\exists \ \forall \ \varepsilon$	exists, forall, backepsilon	$a \wedge b \ a \vee b$	a and b, a or b
$\hbar \ \lambda$	hbar, lambdabar	$a \rightarrow b \ a \Rightarrow b$ $a \leftrightarrow b \ a \Leftarrow b$	a toward b, a drarrow b, a dlarrow b, a dlarrow b
$\Re \ \Im$	Re, Im	$a b \ a \nmid b$	a divides b, a ndivides b
$\dots \ \cdots$	dotslow, dotsaxis	$\frac{a}{b} \ \frac{b}{a}$	wideslash, widebslash
$\vdots \ \dot{\cdot} \ \ddot{\cdot}$	dotsvert, dotsup, dotsdown	$a \leftrightarrow b \ a \leftrightarrow b$	a transl b ~ a transr b
$\left[\begin{matrix} x \\ y \end{matrix} \right]$	left [stack { x # y } right]	$a \square b$	a <?> b
$\underbrace{\text{stuff}}_f \ \overbrace{\text{stuff}}^f$	{stuff} underbrace {f}, {stuff} overbrace {f}	$\downarrow \ \uparrow \ \leftarrow \ \rightarrow$	downarrow, uparrow, leftarrow, rightrightarrow
${}^b a \ {}^c a \ {}^r a$	a lsup b, a csup b, a rsup b	$\emptyset \ \aleph$	odivide, odot, ominus, oplus, otimes
${}_b a \ {}_c a \ {}_r a$	a lsub b, a csub b, a rsub b	$a \in B \ a \notin B$	emptyset, aleph
		$A \cup B \ A \cap B$	a in b, a notin b a union b, a intersection b

$A \subseteq B \quad A \not\subseteq B$	A subseteq B, A nsubseteq B	$\frac{A}{x^2} \Big _0^5$	left none A over x^2 right] _0^5
$\mathbb{N} \mathbb{Z} \mathbb{Q} \mathbb{R} \mathbb{C}$	setN, setZ, setQ, setR, setC	$\hat{F}_{ij\mu\nu}$	{bold hat F}_{ij%mu%nu}
$a!$	fact a	To the left a Right	alignl "To the left" newline alignc a newline alignr "Right"
\mathbf{a}	bold a		
$\sin \theta$	size 16 sin %theta		
$qv \quad qv \quad qv$	font sans qv, font serif qv, font fixed qv	$\frac{d(f(x))}{dx} \Big _{x=a}$	left none {d(f(x))} over dx right rline_{x = a}
qv	color green qv (colors are black, white, cyan, magenta, red, blue, green, yellow)	$ \psi\rangle$	\rline %psi \rangle or left lline %psi right \rangle
(a) $[a] \{a\} \left\{ \begin{matrix} a \\ b \end{matrix} \right\}$	(a), [a], lbrace a rbrace, left lbrace stack {a#b} right rbrace	$\bar{\bar{X}}$	bar bar hat X
$\llbracket \begin{matrix} a \\ b \end{matrix} \rrbracket$	lbracket c rbracket, left lbracket stack {a# b} right rbracket	$x = \frac{b}{a+b+c}$ $y = \frac{z}{r+s+8}$	left none stack { alignl x = {alignc {b over {a+b+c}}}} # alignl y = z over {r + s + 8} } right rbrace
$ x \quad a \quad \left \begin{matrix} a \\ b \end{matrix} \right $	abs x, lline a rline, left lline stack {a#b} right rline	$\ \rangle \llbracket \rrbracket \} \} \}$	\rdbaracket, \rangle, \rangleline, \rdline, \rfloor, \rceil, \}, \}, \}
$\ a\ \quad \left\ \begin{matrix} a \\ b \end{matrix} \right\ $	ldline a rdline, left ldline stack {a#b} right rdline	AB	{bold A} B phantom C (shading added to show phantom position)
$\langle a b \rangle \left\langle \begin{matrix} a \\ b \end{matrix} \middle c \right\rangle$	langle a mline b rangle, left langle stack{a#b} mline c right rangle	\wp	wp (Weierstrass elliptic function)
$\lfloor a \rfloor \lceil a \rceil$	lfloor a rfloor ~ lceil a rceil		
$\left(\begin{matrix} a \\ b \end{matrix} \right)$	left (stack{a # b} right)	$\mathbf{a} \mathbf{b} \mathbf{c} \quad \mathit{a} \mathit{b} \mathit{c}$	bold {a b nbold c} ~ ital {a b nitalic c}
$\begin{matrix} a \\ b \end{matrix}$	stack {a # b} or binomial a b	$x \ x$ $y \ y$	x`x newline y~y
$\begin{matrix} a & b \\ c & d \end{matrix} \quad \left(\begin{matrix} a & b \\ c & d \end{matrix} \right)$	matrix{a # b ## c # d}, left (matrix{a # b ## c # d} right)	$\left(\begin{matrix} 1 & 2 \\ 3 & 4 \end{matrix} \middle \begin{matrix} 1 \\ 2 \end{matrix} \right)$	left (matrix{1 # 2 ## 3 # 4} ` mline ` matrix { 1 ## 2 } right)
<i>inserting newlines</i>	inserting newline newlines	$a = 12$ $b+c+d = b^2 - 2$	stack{ alignr a ={} # alignr b+c+d ={}} stack{ alignl 12 # alignl b^2- 2 }
\sphericalangle	%angle		
$\varepsilon \ \varphi \ \varpi \ \varrho \ \zeta \ \vartheta$	%varepsilon, %varphi, %varpi, %varrho, %varsigma, %vartheta	$\frac{145}{13} \overline{1885}$	stack {alignr "145" #13 overline ")1885"}
		$\times 44$	{ } times 44