LaTeX Math Symbols

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Math Mode Accents	
\acute{a}	\acute{a}
\bar{a}	$ar{a}$
\breve{a}	$ec{a}$
\check{a}	$ec{a}$
\ddot{a}	$\mid\ddot{a}\mid$
\dot{a}	$\mid\dot{a}\mid$
\grave{a}	\dot{a}
\hat{a}	\hat{a}
\mathring{a}	$ \mathring{a}$
\tilde{a}	\widetilde{a}
\vec{a}	$ec{a}$
\widehat{AAA}	\widehat{AAA}
\widetilde{AAA}	\widetilde{AAA}

	Greek Letters
\alpha	$\mid lpha$
\beta	eta
\gamma	γ
\delta	δ
\epsilon	ϵ
\varepsilon	arepsilon
\zeta	ζ
\eta	$\mid \eta \mid$
\Gamma	Γ
\Delta	Δ
\Theta	Θ
\theta	$\mid heta$
\vartheta	$\mid artheta$
\iota	
\kappa	κ
\lambda	$\mid \lambda \mid$
\mu	$\mid \mu \mid$
\nu	u
\xi	ξ
\Lambda	Λ
\Xi	Ξ
\Pi	П
0	0

\pi 7	π
\varpi 7	$\overline{\omega}$
\rho \rho	
\varrho \varrho	
\sigma C	σ
\varsigma \sqrt{S}	
\tau 7	Т
$igsim$ \Sigma $igsim$	
\Upsilon \	Υ
\Phi 4	Ъ
\upsilon \	\mathcal{G}
lacksquare	
\varphi \varphi	0
λ	X
$oxed{lack}\psi$	<i>b</i>
Nomega	ω
\Psi \V	Ψ
\Omega \	

Binary Relations	
<	
>	>
=	_
\leq \\le	<
\geq \ge	<u>></u>
\equiv	
\\ll	\ll
\gg_	>>
\doteq	$\dot{=}$
\prec	\prec
\succ	>
\\sim	~
\preceq	\preceq
\succeq	<u> </u>
\simeq	~
\subset	
\supset	
\approx	pprox
\subseteq	
\supseteq	2
\cong	\cong
\sqsubset	(Require the latexsym package)

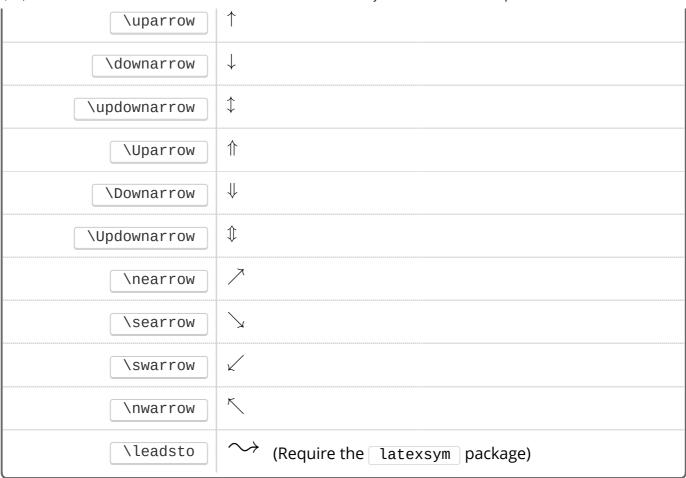
\sqsupset	☐ (Require the latexsym package)
\Join	(Require the latexsym package)
\sqsubseteq	
\sqsupseteq	
\bowtie	\bowtie
\in	\in
\ni \owns	∋
\propto	\propto
\vdash	-
\dashv	+
\models	=
\mid	
\parallel	
\perp	
\smile	
\frown	
\asymp	>
· ·	•
\notin	∉
\neq \ne	\neq

	Binary Operators
+	+
-	
\pm	±
\mp	干
\triangleleft	◁
\cdot	•
\div	•
\triangleright	
\times	×
\setminus	
\star	*
\cup	U
\cap	Π
\ast	*
\sqcup	Ц
\sqcap	П
\circ	0
\vee \lor	V
\wedge \land	^
\bullet	
\oplus	\oplus
\ominus	θ

\diamond	La lex Math Symbols Cheat Sheet - Kapell
\odot	\odot
\oslash	
\uplus	Н
\otimes	\otimes
\bigcirc	0
\amalg	Ц
\bigtriangleup	\triangle
\bigtriangledown	∇
\dagger	†
\\lhd	⟨Require the latexsym package⟩
\rhd	(Require the latexsym package)
\ddagger	‡
\unlhd	☐ (Require the latexsym package)
\unrhd	├ (Require the latexsym package)
\wr	₹

.5/22, 12:54 AM	La lex Math Symbols Cheat Sheet - Rapell
	BIG Operators
\sum	\sum
\bigcup	U
\bigvee	V
\prod	П
\bigcap	Λ
\bigwedge	\wedge
\coprod	Ш
\bigsqcup	
\biguplus	\forall
\int	\int
\oint	∮
\bigodot	\odot
\bigoplus	\oplus
\bigotimes	\otimes

	Arrows
\leftarrow \gets	
∖longleftarrow	
\rightarrow \to	\rightarrow
\longrightarrow	
\leftrightarrow	\leftrightarrow
\longleftrightarrow	\longleftrightarrow
\Leftarrow	(
\Longleftarrow	==
\Rightarrow	\Rightarrow
\Longrightarrow	\Longrightarrow
\Leftrightarrow	\Leftrightarrow
\Longleftrightarrow	\iff
\mapsto	\mapsto
\longmapsto	\longmapsto
\hookleftarrow	\leftarrow
\hookrightarrow	\hookrightarrow
\leftharpoonup	<u>/</u>
\rightharpoonup	
∖leftharpoondown	7
\rightharpoondown	7
\rightleftharpoons	—
\iff	(bigger spaces)



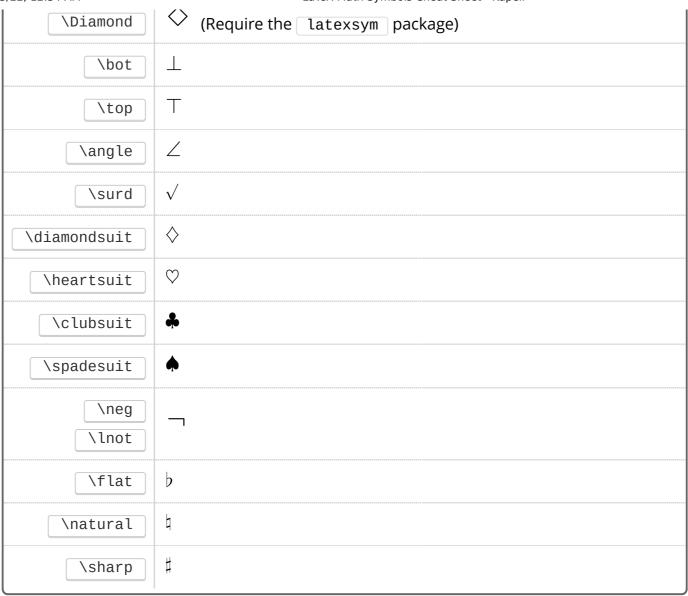
Aı	rows as Accents
\overrightarrow{AB}	\overrightarrow{AB}
\underrightarrow{AB}	AB
\overleftarrow{AB}	\overleftarrow{AB}
\underleftarrow{AB}	<u>AB</u>
\overleftrightarrow{AB}	\overrightarrow{AB}
\underleftrightarrow{AB}	₽

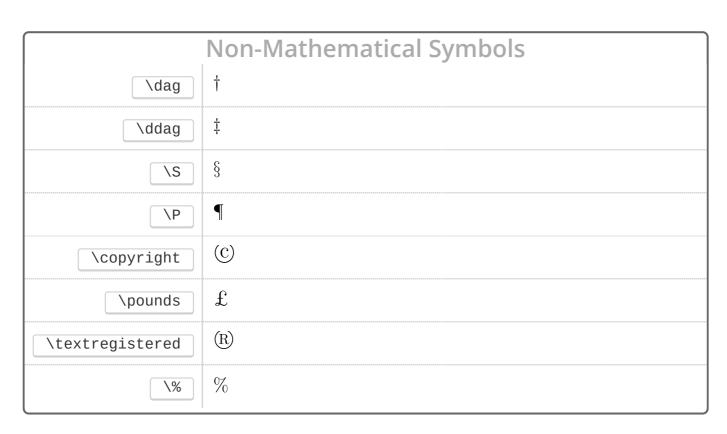
Delimiters	
)
\uparrow	<u></u>
\lbrack [[
\rbrack	
\downarrow	↓
\lbrace \{	{
\rbrace \}	}
\updownarrow	‡
\langle	<
\rangle	>
\Uparrow	\uparrow
\vert	
\Vert	
\Downarrow	₩
/	
\backslash	
\Updownarrow	‡
\lfloor	L
I	

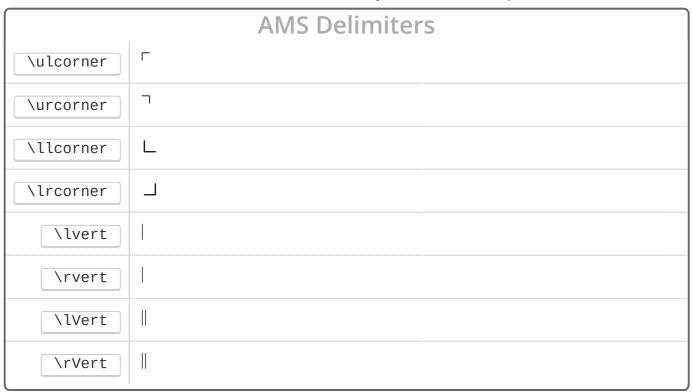
\rfloor	
\rceil	7
\lceil	

	Large Delimiters
\lgroup	(
\rgroup)
\lmoustache	ſ
\arrowvert	
\Arrowvert	
\bracevert	
\rmoustache	

Miscellaneous Symbols				
\dots	• • •			
\cdots				
\vdots	:			
\ddots				
\hbar	\hbar			
\imath]	ullet			
\jmath	\mathcal{I}			
\ell	ℓ			
\Re	\Re			
\Im	\Im			
\aleph	×			
\wp	80			
\forall	A			
\exists	Э			
\mho	\mho (Require the <code>latexsym</code> package)			
\partial	∂			
ı	,			
\prime	<i>'</i>			
\emptyset	Ø			
\infty	∞			
\nabla	lacksquare			
\triangle				
\Box	(Require the latexsym package)			
I				







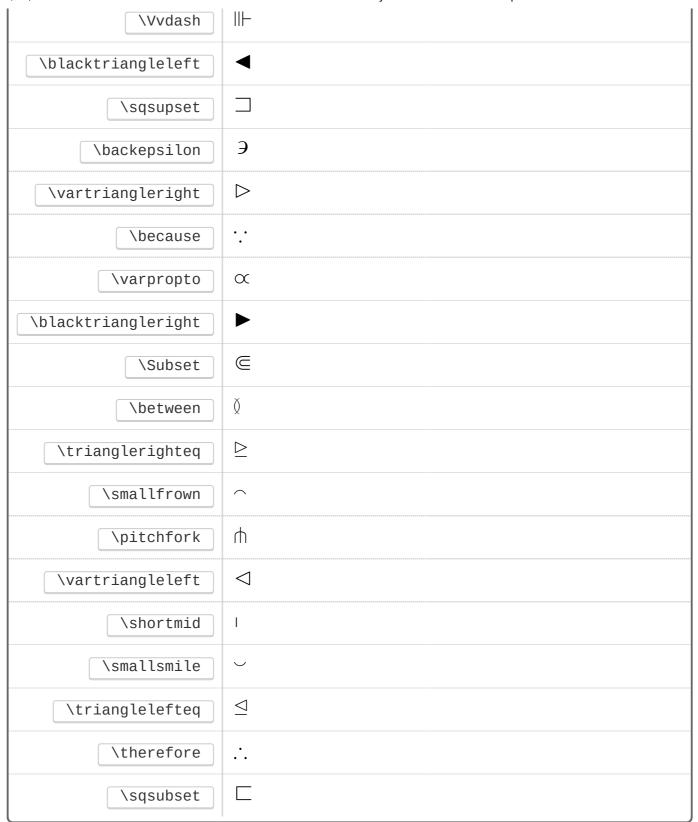
	AMS Greek and Hebrew
\digamma	F
\varkappa	26
\beth	コ
\gimel	J
\daleth	7

	,	•			
Math Alphabets					
Command	Example	Required Package			
\mathrm{ABCDEabcde1234}	ABCDEabcde1234				
\mathit{ABCDEabcde1234}	ABCDEabcde 1234				
\mathnormal{ABCDEabcde1234}	ABCDEabcde1234				
\mathcal{ABCDEabcde1234}	$ABCDE \dashv [] [] \infty \in \ni \triangle$				
\mathscr{ABCDEabcde1234}	A BC DE	mathrsfs			
\mathfrak{ABCDEabcde1234}	ABCDEabcde1234	amsfonts or amssymb			
\mathbb{ABCDEabcde1234}	ABCDEƏKKKÇ	amsfonts or amssymb			

	AMS Binary Operators
\dotplus	+
\centerdot	_
\\ltimes	×
\rtimes	×
\divideontimes	*
\doublecup	U
\doublecap	
\smallsetminus	
\veebar	<u>V</u>
\barwedge	$\overline{\wedge}$
\doublebarwedge	
\boxplus	
\boxminus	
\circleddash	Θ
\boxtimes	
\boxdot	
\circledcirc	⊙
\intercal	T
\circledast	*
\rightthreetimes	
\curlyvee	Υ
\curlywedge	人
\leftthreetimes	\rightarrow

	AMS Binary Relations
\lessdot	<
\gtrdot	>
\doteqdot	<u>÷</u>
\leqslant	
\geqslant	>
\risingdotseq	:
\eqslantless	
\eqslantgtr	>
\fallingdotseq	<u>-</u>
\leqq	\leq
\geqq	\geq
\eqcirc	<u> </u>
\llless	***
\ggg	>>>
\circeq	<u></u>
\lesssim	\lesssim
\gtrsim	\gtrsim
\triangleq	≜
\lessapprox	≨
\gtrapprox	\gtrapprox
\bumpeq	<u>~</u>
\lessgtr	\$
\gtrless	$ \ge $

\lesseqgtr \forall \lesseqqtr \forall \leqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqq	
\thicksim ~	
\lesseqqgtr ≤	
\gtreqqless	
\thickapprox ≈	
\preccurlyeq \	
\succcurlyeq >	
\approxeq ≥	
\curlyeqprec ≺	
\curlyeqsucc \>	
\backsim \	
\precsim ≾	
\succsim \	
\backsimeq \square \square \square \lambda	
\precapprox ≈	
\succapprox \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
∖vDash ⊨	
\subseteqq ⊆	
\supseteqq ⊇	
∖Vdash ⊨	
\shortparallel	
\Supset \supseteq	



Notes

• Based on The not so Short Introduction to LaTeX.

You can modify and improve this cheat sheet here