Symbols & Logical Syntax in \LaTeX

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Greek & Hebrew Alphabetical Letters

A, α	\Alpha, \alpha	Ι, ι	\Iota, \iota	Ρ, ρ, ρ	\Rho, \rho, \varrho	F	\digamma
B, β	\Beta, \beta	Κ, κ, μ	\Kappa, \kappa, \varkappa	Σ , σ , ς	\Sigma, \sigma, \varsigma	×	\aleph
Γ , γ	\Gamma, \gamma	Λ, λ	\Lambda, \lambda	T, τ	\Tau, \tau	⊐	\beth
$\Delta, \ \delta$	\Delta, \delta	M, μ	\Mu, \mu	Υ , v	\Upsilon, \upsilon	٦	\daleth
E, ϵ , ε	\Epsilon, \epsilon, \varepsilon	Ν, ν	\Nu, \nu	Φ, ϕ, φ	\Phi, \phi, \varphi	[ב	\gimel
Z, ζ	\Zeta, \zeta	Ξ, ξ	\Xi, \xi	Χ, χ,	\Chi, \chi		
H, η	\Eta, \eta	О, о	\Omicron, \omicron	Ψ, ψ	\Psi, \psi		
Θ , θ , ϑ	\Theta, \theta, \vartheta	Π, π, ϖ	\Pi, \pi, \varpi	Ω, ω	\Omega, \omega		

Basic Math Mode Syntax

XY	Z xyz XYZ\ xyz \mathbb{XYZ}	XYZ xyz		XYZ xyz XY3 rŋ3	<pre>\mathit{XYZ\ xyz} \mathfrak{XYZ\ xyz}</pre>	XYZ xyz	<pre>\mathbf{XYZ\ xyz} \mathtt{XYZ\ xyz}</pre>
xyz xyz $abcd$ $abcd$ abc	<pre>xyz x\ y\ z a\:b\mspace{4mu}c\med a b\mspace{18mu} a\phantom(xxx}b</pre>	-	Math spacing Extended spacing 4mu ('medium') space 18mu ('quad') space Space width of 'xxx'	$ \begin{vmatrix} \sin x \cos y \\ a b c d \\ a b c d \end{vmatrix} $ $ abad $	\sin x\cos y ab\mspace{3mu}c\t a\;b\mspace{5mu}c\t a\!b\mspace{-3mu}c\	hickspace d	Operator spacing 3mu ('thin') space 5mu ('thick') space Neg. 3mu ('thin') space

Math Accents & Constructs

\hat{x}	\hat{x}	ž	\check{x}	\tilde{x}	\tilde{x}	ý.	\acute{x}	à.	\grave{x}
\dot{x}	\dot{x}	\ddot{x}	\ddot{x}	$reve{x}$	\breve{x}	\bar{x}	\bar{x}	\vec{x}	\vec{x}
\widehat{xyz}	\widehat{xyz}	\widetilde{xyz}	\widetilde{xyz}	$\frac{abc}{xyz}$	\frac{abc}{xyz}	f, f'	f, f'	\sqrt{x}	\sqrt{x}
$\sqrt[n]{x}$	$\left[n\right] \left\{ x\right\}$	\overline{xyz}	\overline{xyz}	$\frac{xyz}{}$	\underline{xyz}	\widehat{xyz}	\overbrace{xyz}	xyz	\underbrace{xyz}
\overrightarrow{xyz}	\overrightarrow{xyz}	\overleftarrow{xyz}	\overleftarrow{xyz}						

Binary Relations

Note that you can produce according negations by either adding the \not command as a prefix or ordinarily by preceding the commands with 'n', for example, \not= or \neq turns = to \neq .