List of LaTeX mathematical symbols

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All the predefined mathematical symbols from the TₑX package are listed below. More symbols are available from extra packages.

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Greek letters

Greek letters

Symbol	LaTeX	Symbol	LaTeX
$\mathbf{A}$ and α	\Alpha and \alpha	$\mathbf{N}$ and ν	\Nu and \nu
$\mathbf{B}$ and β	\Beta and \beta	Ξ and ξ	\Xi and \xi
Γ and γ	\Gamma and \gamma	$\mathbf{O}$ and o	\Omicron and \omicron
Δ and δ	\Delta and \delta	Π, π and ϖ	\Pi, \pi and \varpi
$\mathbf{E}$, ϵ and ε	\Epsilon, \epsilon and \varepsilon	$\mathbf{P}$, ρ and ϱ	\Rho, \rho and \varrho
$\mathbf{Z}$ and ζ	\Zeta and \zeta	Σ, σ and ς	\Sigma, \sigma and \varsigma
$\mathbf{H}$ and η	\Eta and \eta	$\mathbf{T}$ and τ	\Tau and \tau
Θ, θ and ϑ	\Theta, \theta and \vartheta	Υ and υ	\Upsilon and \upsilon
$\mathbf{I}$ and ι	\Iota and \iota	Φ, ϕ, and φ	\Phi, \phi and \varphi
$\mathbf{K}$, κ and $\varkappa$	\Kappa, \kappa and \varkappa	$\mathbf{X}$ and χ	\Chi and \chi
Λ and λ	\Lambda and \lambda	Ψ and ψ	\Psi and \psi
$\mathbf{M}$ and μ	\Mu and \mu	Ω and ω	\Omega and \omega

Archaic Greek letters

Symbol	LaTeX
F	\Digamma
$\digamma$	\digamma

Unary operators

Unary operators

Symbol	LaTeX	Comment	Symbol	LaTeX	Comment	Symbol	LaTeX	Comment	Symbol	LaTeX	Comment
+	+		−	-	negation	!	!	factorial	#	\#	primorial
			¬	\neg	not						

Relation operators

Relation operators

Symbol	LaTeX	Comment	Symbol	LaTeX	Comment
<	<	is less than	>	>	is greater than
≮	\nless	is not less than	≯	\ngtr	is not greater than
≤	\leq	is less than or equal to	≥	\geq	is greater than or equal to
⩽	\leqslant	is less than or equal to	⩾	\geqslant	is greater than or equal to
≰	\nleq	is neither less than nor equal to	≱	\ngeq	is neither greater than nor equal to
≰	\nleqslant	is neither less than nor equal to	≱	\ngeqslant	is neither greater than nor equal to
≺	\prec	precedes	≻	\succ	succeeds
⊀	\nprec	doesn't precede	⊁	\nsucc	doesn't succeed
⪯	\preceq	precedes or equals	⪰	\succeq	succeeds or equals
⋠	\npreceq	neither precedes nor equals	⋡	\nsucceq	neither succeeds nor equals
≪	\ll		≫	\gg	
⋘	\lll		⋙	\ggg	
⊂	\subset	is a proper subset of	⊃	\supset	is a proper superset of
⊄	\not\subset	is not a proper subset of	⊅	\not\supset	is not a proper superset of
⊆	\subseteq	is a subset of	⊇	\supseteq	is a superset of
⊈	\nsubseteq	is not a subset of	⊉	\nsupseteq	is not a superset of
⊏	\sqsubset		⊐	\sqsupset	
⊑	\sqsubseteq		⊒	\sqsupseteq	

Symbol	LaTeX	Comment
=	=	is equal to
≐	\doteq	
≡	\equiv	is equivalent to
≈	\approx	is approximately
≅	\cong	is congruent to
≃	\simeq	is similar or equal to
~	\sim	is similar to
∝	\propto	is proportional to
≠ or ≠	\neq or \ne	is not equal to

Symbol	LaTeX	Comment	Symbol	LaTeX	Comment
∥	\parallel	is parallel with	∦	\nparallel	is not parallel with
≍	\asymp	is asymptotic to	⋈	\bowtie	
⊢	\vdash		⊣	\dashv	
∈	\in	is member of	∋	\ni	owns, has member
⌣	\smile		⌢	\frown	
⊨	\models	models	∉	\notin	is not member of
⊥	\perp	is perpendicular with	|	\mid	divides

Binary operators

Binary operators

Symbol	LaTeX	Comment	Symbol	LaTeX	Comment	Symbol	LaTeX	Comment	Symbol	LaTeX	Comment
±	\pm	plus or minus	∩	\cap	set intersection	◇	\diamond		⊕	\oplus	
∓	\mp	minus or plus	∪	\cup	set union	△	\bigtriangleup		⊖	\ominus	
×	\times	multiplied by	⊎	\uplus	multiset addition	▽	\bigtriangledown		⊗	\otimes	
÷	\div	divided by	⊓	\sqcap		◁	\triangleleft		⊘	\oslash	
∗	\ast	asterisk	⊔	\sqcup		▷	\triangleright		⊙	\odot	
⋆	\star		∨	\vee		○	\bigcirc		∘	\circ	
†	\dagger		∧	\wedge		•	\bullet		\	\setminus	set difference
‡	\ddagger		·	\cdot		≀	\wr		∐	\amalg	

Negated binary relations

Negated binary operators

Symbol	LaTeX	Comment	Symbol	LaTeX	Comment
≠ or ≠	\neq or \ne	is not equal to	∉	\notin	is not member of
≮	\nless	is not less than	≯	\ngtr	is not greater than
≰	\nleq	is not less than or equal to	≱	\ngeq	is not greater than or equal to
≰	\nleqslant		≱	\ngeqslant	
≦̸	\nleqq		≧̸	\ngeqq	
≨	\lneq		≩	\gneq	
≨	\lneqq		≩	\gneqq	
≨	\lvertneqq		≩	\gvertneqq	
⋦	\lnsim		⋧	\gnsim	
⪉	\lnapprox		⪊	\gnapprox	
⊀	\nprec	does not precede	⊁	\nsucc	does not succeed
⋠	\npreceq	neither precedes nor equals	⋡	\nsucceq	neither succedes nor equals
⪵	\precneqq		⪶	\succneqq	
⋨	\precnsim		⋩	\succnsim	
⪹	\precnapprox		⪺	\succnapprox	
≁	\nsim	is not similar to	≇	\ncong	is not congruent to
∤	\nshortmid		∦	\nshortparallel	
∤	\nmid		∦	\nparallel	is not parallel with
⊬	\nvdash		⊭	\nvDash	
⊮	\nVdash		⊯	\nVDash	
⋪	\ntriangleleft		⋫	\ntriangleright	
⋬	\ntrianglelefteq		⋭	\ntrianglerighteq	
⊄	\nsubseteq		⊅	\nsupseteq	
⊈	\nsubseteqq		⊉	\nsupseteqq	
⊊	\subsetneq		⊋	\supsetneq	
⊊	\varsubsetneq		⊋	\varsupsetneq	
⊊	\subsetneqq		⊋	\supsetneqq	
⊊	\varsubsetneqq		⊋	\varsupsetneqq	

Set and/or logic notation

Set notation

Symbol	LaTeX	Comment
∅ or ∅, and ∅	\O or \emptyset, and \varnothing	the empty set
ℕ	\N	set of natural numbers