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List of LaTeX mathematical symbols

There are no approved revisions of this page, so it may **not** have been reviewed. 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

Symbol

 ${f A}$ and ${f lpha}$

 ${f B}$ and ${m eta}$

 ${f Z}$ and ${m \zeta}$

 ${f I}$ and $m \iota$

 Λ and λ

 ${f M}$ and ${m \mu}$

 Γ and γ

\Alpha and \alpha \Beta and \beta Δ and δ

\Gamma and \gamma \Delta and \delta <code>\Epsilon</code>, <code>\epsilon</code> and <code>\varepsilon</code> $| \mathbf{P}, oldsymbol{
ho}$ and $oldsymbol{arrho}$ $| \$ <code>\Rho</code>, <code>\rho</code> and <code>\varrho</code> ${f E}$, ϵ and arepsilon $\Zeta and \zeta$ ${f H}$ and ${m \eta}$ \Eta and \eta Θ , θ and ϑ \Theta, \theta and \vartheta

\Iota and \iota K, κ and \varkappa \Kappa, \kappa and \varkappa \Lambda and \lambda \Mu and \mu

LATEX

Greek letters

Symbol

\Nu and \nu

Xi and xi

 ${f N}$ and ${m
u}$

 Ξ and ξ

O and o

 Σ , σ and ς \Sigma, \sigma and \varsigma ${f T}$ and ${m au}$ \Tau and \tau Υ and $oldsymbol{v}$ \Upsilon and \upsilon $|\Phi,\phi,$ and arphi| \Phi, \phi and \varphi ${f X}$ and ${m \chi}$ Chi and Chi Ψ and ψ \Psi and \psi Ω and ω \Omega and \omega

Unary operators

LATEX Symbol **\Digamma** \digamma Unary operators

Archaic Greek letters

Symbol | LATEX | Comment | Symbol | LATEX | Comment | Symbol | LATEX | Comment | Symbol | LATEX | Comment

Symbol

Relation operators LATEX

\nless

∖leqslant

\leq

\nleq

\prec

\nprec

\preceq

\npreceq

\subseteq

\sqsubset

\nsubseteq

\sqsubseteq

\11

\111

 \ll

~

is less than

is less than or equal to

\nleqslant is neither less than nor equal to ≱

doesn't precede

precedes or equals

is a proper subset of

neither precedes nor equals

precedes

\not\subset | is not a proper subset of

is a subset of

minus or plus U

multiplied by ⊎

Λ

divided by

asterisk

is not a subset of

is neither less than nor equal to ot|
ot|

negation \neg | not Comment is not less than is less than or equal to

Relation operators LATEX Symbol \ngtr \geq \geqslant \ngeq \succ \nsucc

 \gg

factorial

primorial

Comment

is greater than is not greater than is greater than or equal to is greater than or equal to is neither greater than nor equal to \ngeqslant is neither greater than nor equal to succeeds doesn't succeed \succeq \nsucceq \gg \ggg \supset

succeeds or equals neither succeeds nor equals is a proper superset of \not\supset | is not a proper superset of is a superset of \supseteq \nsupseteq is not a superset of \sqsupset \sqsupseteq

LATEX

\bigtriangleup

\triangleleft

\triangleright

\bigtriangledown

\diamond

LATEX LATEX Symbol **Symbol** Comment Comment \parallel | is parallel with \nparallel is not parallel with \bowtie \asymp is asymptotic to \bowtie \asymp \dashv \vdash \ni \ni \in is member of owns, has member \smile \frown \models models is not member of \notin is perpendicular with \mid divides \perp Binary operators Binary operators Symbol LATEX LATEX Comment Symbol Symbol Comment

\cap

\cup

\sqcap

\sqcup

\wedge

\cdot

Comment

is not less than or equal to

is not equal to

is not less than

\vee

set intersection

\notin

\ngtr

\ngeq

set union

\uplus | multiset addition | ▽

\pm

\mp

\times

\div

∖ast

\star

\dagger

\ddagger

LATEX Symbol \neq or \neq \neq or \ne \nless

Negated binary relations \nleq \nleqq ∖lneq \lneqq \lnsim

Symbol

Geometry

\cap

\setminus

 \cong

Delimiters

Symbol

Arrows Symbol \rightarrow or \rightarrow \rightarrow or \to

Symbol

Other symbols LATEX

LATEX

\eth \hbar **Hebrew lettters**

Circular functions The prefix arc used for inverse circular trigonometric functions is the abbreviation for arcus. Symbol | LATEX | Symbol | LATEX | Symbol | LATEX | Symbol | LATEX | \sin | arcsin | \arcsin | csc

\cos | arccos \arccos | sec \tan | arctan | \arctan | cot an

arcoth \operatorname{arcoth} \tanh | artanh | \operatorname{artanh} | coth \coth Sections remaining to be done: Table 3 onwards from symbols.pdf (To do)[1]

External links Scott Pakin, The Comprehensive LATEX Symbol List, 2017. (Lists thousands of symbols and the corresponding LATEX commands that produce them.) Comprehensive TEX Archive Network

http://ctan.cms.math.ca/tex-archive/info/symbols/comprehensive/SYMLIST Categories: LaTeX | Mathematical symbols

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LATEX \Omicron and \omicron $oxed{\Pi}$, π and $oldsymbol{arpi}$ \Pi, \pi and \varpi

LATEX Symbol Comment is equal to \doteq \equiv \equiv is equivalent to \approx \approx is approximately \cong \cong is congruent to \simeq \simeq is similar or equal to \sim is similar to \propto is proportional to $| \neq \text{ or } \neq | \setminus \text{neq or } \setminus \text{ne} | \text{ is not equal to} |$

LATEX Comment \oplus \ominus \otimes \oslash

\bigcirc \bullet \setminus | set difference П \wr \amalg **Negated binary operators** LATEX Symbol Comment

is not greater than or equal to

is not member of

is not greater than

Comment Symbol

 \oplus

 Θ

 \otimes

 \oslash

 \odot

\odot

\circ

\nleqslant \ngeqslant \ngeqq \gneq \gneqq \lvertneqq \gvertneqq \gnsim \lnapprox \gnapprox \nprec does not precede \nsucc does not succeed neither precedes nor equals $ot
ag{2}$ \nsucceq neither succedes nor equals \npreceq \precneqq \succneqq \precnsim \succnsim \precnapprox \succnapprox \ncong is not similar to \nsim \ncong is not congruent to \nshortparallel \nshortmid \nparallel is not parallel with \nmid ¥ \nvdash \nvDash \nVDash \nVdash \not \ntriangleleft \ntriangleright \ntrianglelefteq \ntrianglerighteq \nsubseteq \nsupseteq \nsupseteqq \nsubseteqq \subsetneq \supsetneq \varsupsetneq \varsubsetneq \subsetneqq \supsetneqq \varsupsetneqq \varsubsetneqq

Set and/or logic notation **Set notation** LATEX Comment \emptyset or \emptyset , and \varnothing \0 or \emptyset, and \varnothing | the empty set Logic notation \N set of natural numbers LATEX Symbol Comment \Z set of integers \exists there exists at least one set of rational numbers **\Q** \exists! there exists one and only one \mathbb{A} set of algebraic numbers \nexists there is no set of real numbers \forall set of complex numbers \neg not (logical not) \mathbb{H} ∖lor or (logical or) $\mathbb{0}$ set of octonions ∖land and (logical and) \mathbb{S} set of sedenions \Longrightarrow or \implies | implies \in is member of \Rightarrow (preferred for right implication) \notin is not member of **\Longleftarrow** is implied by (only if) \iff \ni owns (has member) (preferred for left implication) \Leftarrow \subset is proper subset of \iff is equivalent to (if and only if, iff) \iff \subseteq is subset of **\Leftrightarrow** (preferred for equivalence) \supset is proper superset of \top \supseteq is superset of \bot \cup set union

Geometry notation LATEX LATEX Symbol Symbol Comment Comment $\mathbf{A}\dot{\mathbf{B}}$ $\overline{\mathbf{A}}\overline{\mathbf{B}}$ \overline{\rm AB} segment \overrightarrow{\rm AB} | ray (half-line) \angle \measuredangle measured angle \triangle \triangle triangle \square square congruent (same shape and size) \mid \ncong not congruent \cong \ncong \sim similar (same shape) \nsim not similar \nparallel is parallel with is not parallel with \perp is perpendicular to \not\perp is not perpendicular to

set intersection

set difference

Delimiters LATEX LATEX LATEX LATEX Symbol Symbol Symbol Comment Comment Comment Comment divides unitarily, is parallel with \backslash) \, left [square] bracket] \, (\, [\, left parenthesis right parenthesis right [square] bracket \} left angle bracket \{ right brace \langle \rangle right angle bracket left brace \lceil ceiling (left) \rceil ceiling (right) \lfloor floor (left) \rfloor floor (right) \llcorner \lrcorner \ulcorner \urcorner **Arrows**

Comment Symbol

LATEX

\longrightarrow

Comment Symbol

LATEX

\Longrightarrow

\Longleftarrow

Comment

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\longmapsto \mapsto ← or ← \leftarrow or \gets \longleftarrow \Leftarrow LATEX LATEX Symbol Comment Comment \uparrow Knuth's up-arrow notation | ↑ \Uparrow \downarrow **\Downarrow** \Updownarrow \updownarrow

LATEX

\Rightarrow

Comment Symbol

Other symbols Comment Symbol LATEX LATEX LATEX **Symbol** Symbol Comment Symbol Comment Comment \partial | partial derivative \imath ∖Re \nabla | del (vector calculus) real part \Box ∖jmath \Im imaginary part \ell \infty | infinity reduced Planck's constant | *l* [Weierstrass] powerset ∞

Symbol LATEX Comment \aleph | aleph numbers \beth \gimel Trigonometric functions

Hyperbolic functions The abbreviations arcsinh, arccosh, etc., are commonly used for inverse hyperbolic trigonometric functions (area hyperbolic functions), even though they are misnomers, since the prefix arc is the abbreviation for arcus, while the prefix ar stands for area. Symbol IATEX Symbol LATEX LATEX LATEX Symbol Symbol \sinh | arsinh \operatorname{arsinh} | csch \operatorname{csch} | arcsch | \operatorname{arcsch} \cosh | arcosh | \operatorname{arcosh} \operatorname{sech} | arsech | \operatorname{arsech}

\arcsec

\csc | arccsc | \arccsc

\cot | arccot | \arccot

\sec | arcsec

Notes 1. ↑ To do.

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