# CTIC – LATEX – MATEMÁTICA

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## Símbolos matemáticos

Para obtener los símbolos subrayados debemos agregar en el preámbulo lo siguiente:

\usepackage{latexsym}

### Letras griegas

### Lower case letters

α	\alpha	$\theta$	\theta	0	0	τ	\tau
$\beta$	\beta	$\boldsymbol{\vartheta}$	\vartheta	$\pi$	\pi	υ	\upsilon
$\gamma$	\gamma	ι	\iota	$\overline{\omega}$	∖varpi	$\phi$	\phi
$\delta$	\delta	K	\kappa	ho	\rho	$\varphi$	\varphi
$\epsilon$	\epsilon	λ	\lambda	$\varrho$	\varrho	χ	\chi
ε	\varepsilon	μ	\mu	$\sigma$	\sigma	$\psi$	\psi
ζ	\zeta	$\nu$	\nu	ς	\varsigma	$\omega$	\omega
η	\eta	ξ	\xi				

## Upper case letters

Γ	\Gamma	$\Lambda$	\Lambda	$\sum$	\Sigma	Ψ	\Psi
$\Delta$	\Delta	Ξ	\Xi	Υ	\Upsilon	$\Omega$	\Omega
Θ	<b>\Theta</b>	Π	\Pi	Φ	\Phi		

# Operadores binarios

$\pm$	\pm	$\cap$	\cap	0	\circ	$\bigcirc$	\bigcirc
$\mp$	\mp	$\cup$	\cup	•	\bullet		\Box
×	\times	+	\uplus	$\Diamond$	\diamond	$\Diamond$	\Diamond
÷	\div	П	\sqcap	$\triangleleft$	\1hd	$\triangle$	\bigtriangleup
	\cdot	$\sqcup$	\sqcup	$\triangleright$	∖rhd	$\nabla$	\bigtriangledown
*	\ast	$\vee$	\vee	⊴	√unlhd	$\triangleleft$	\triangleleft
*	\star	$\wedge$	\wedge	$\trianglerighteq$	∖unrhd	$\triangleright$	\triangleright
†	\dagger	$\oplus$	\oplus	$\oslash$	∖oslash	\	\setminus
‡	\ddagger	$\Theta$	\ominus	$\odot$	\odot	}	\wr
П	\amalq	$\otimes$	\otimes				

## relaciones y sus negaciones

$\leq$	\le \leq	$\geq$	\ge \geq	#	\neq	~	\sim
~	\11	$\gg$	\gg	÷	\doteq		\simeq
$\subset$	\subset	$\supset$	\supset	$\approx$	\approx	$\cong$	\asymp
$\subseteq$	\subseteq	$\supseteq$	\supseteq	$\cong$	\cong	$\smile$	\smile
	\sqsubset	$\Box$	\sqsupset	≡	\equiv	_	\frown
⊑	\sqsubseteq	$\supseteq$	\sqsupseteq	$\infty$	\propto	$\bowtie$	\bowtie
$\in$	\in	$\ni$	\ni	$\prec$	\prec	$\succ$	\succ
$\vdash$	\vdash	$\dashv$	\dashv	$\leq$	\preceq	$\succeq$	\succeq
⊨	\models	$\perp$	\perp		\parallel \		\mid

K	\not<	*	\not>	$\neq$	\not=
≰	\not\le	≱	\not\ge	#	\not\equiv
$\star$	\not\prec	$\neq$	\not\succ	$\neq$	\not\sim
≰	\not\preceq	$\not\succeq$	\not\succeq	≄	\not\simeq
$\not\subset$	\not\subset	$\not\supset$	\not\supset	≉	\not\approx
⊈	\not\subseteq	$\not\equiv$	\not\supseteq	≇	\not\cong
⊭	\not\sqsubseteq	$\not\equiv$	\not\sqsupseteq	$\not\equiv$	\not\asymp
∉	\not\in	€	\notin		

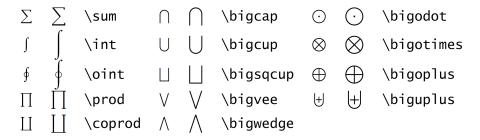
# Flechas y punteros

← \leftarrow \gets	← \longleftarrow	↑\uparrow
<pre>← \Leftarrow</pre>	$\leftarrow$ \Longleftarrow	↑\Uparrow
$\rightarrow$ \rightarrow \to	$\longrightarrow \setminus$ longrightarrow	↓\downarrow
⇒ \Rightarrow	$\Rightarrow \setminus$ Longrightarrow	∜\Downarrow
↔ \leftrightarrow	$\longleftrightarrow \setminus longleftrightarrow$	<pre>↑ \updownarrow</pre>
⇔\Leftrightarrow	$\Leftrightarrow \setminus Longleftrightarrow$	
→ \mapsto		⁄\nearrow
		`\searrow
← \leftharpoonup	→ \rightharpoonup	✓\swarrow
− \leftharpoondown	→ \rightharpoondown	\nwarrow
⇒ \rightleftharpoons	<pre> √ \leadsto</pre>	

#### Otros símbolos

×	\aleph	,	\prime	$\forall$	\forall		\Box
ħ	\hbar	Ø	\emptyset	3	\exists	$\Diamond$	\Diamond
ı	\imath	$\nabla$	\nabla	$\neg$	\neg	$\triangle$	\triangle
J	∖jmath		\surd	b	\flat	*	\clubsuit
$\ell$	\ell	д	\partial	4	\natural	<b>*</b>	\diamondsuit
D	\wp	Т	\top	#	\sharp	•	\heartsuit
$\Re$	\Re	$\perp$	\bot		\	•	\spadesuit
$\mathfrak I$	\Im	$\vdash$	\vdash	_	\angle	$\bowtie$	\Join
Ω	\mho	$\dashv$	\dashv	\	\backslash	$\infty$	√infty

#### Símbolos con dos tamaños



#### Nombre de funciones y funciones con límite inferior

\arccos	$\cosh$	\det	\inf	\limsup	\Pr	\tan
\arcsin	\cot	\dim	\ker	<b>\</b> 1n	\sec	\tanh
\arctan	$\coth$	\exp	<b>\</b> 1g	\log	\sin	
\arg	\csc	\gcd	\lim	\max	\sinh	
\cos	\deg	\hom	\liminf	\min	\sup	

\det \gcd \inf \lim \liminf \limsup \max \min
\Pr \sup

#### "Acentos" matemáticos

 $\hat{a} \setminus \{a\}$   $\check{a} \setminus \{a\}$