## CTIC - LATEX - Paquete amssymb Jhimy Borbor (j.borbor@uni.pe)

# Símbolos matemáticos de la $\mathcal{A}_{\mathcal{M}}\mathcal{S}$

Para obtener los símbolos de la AMS debemos agregar en el preámbulo lo siguiente:

\usepackage{amssymb}

### $\mathcal{A}_{\mathcal{M}}S$ arrows

	\dashrightarrow	<b>←</b> ····	\dashleftarrow
⇇	\leftleftarrows	⇆	\leftrightarrows
$\Leftarrow$	\Lleftarrow	<b>←</b>	\twoheadleftarrow
$\leftarrow$	\leftarrowtail	↔	\looparrowleft
<b>=</b>	\leftrightharpoons	$\sim$	\curvearrowleft
$\bigcirc$	\circlearrowleft	1	\Lsh
<b>1</b> 1	\upuparrows	1	\upharpoonleft
1	\downharpoonleft	-0	\multimap
₩	\leftrightsquigarrow	$\Rightarrow$	\rightrightarrows
$\rightleftarrows$	\rightleftarrows	$\Rightarrow$	\rightrightarrows
$\rightleftarrows$	\rightleftarrows	<b>→</b>	\twoheadrightarrow
$\rightarrow$	\rightarrowtail	↔	\looparrowright
$\rightleftharpoons$	\rightleftharpoons	$\bigcirc$	\curvearrowright
$\bigcirc$	\circlearrowright	7	\Rsh
$\downarrow \downarrow$	\downdownarrows	1	\upharpoonright
ļ	\downharpoonright	<b>^</b>	\rightsquigarrow
	3.7		

### Negated arrows

↔	\nleftarrow	<i>→</i>	\nrightarrow
#	\nLeftarrow	<i></i>	\nRightarrow
↔	\nleftrightarrow	<b>\$</b>	\nLeftrightarrow

# $A_{\mathcal{M}}S$ binary operation symbols

times
eetimes
st
t
(

#### AMS Greek and Hebrew letters

 $\boldsymbol{F}$ \digamma x \varkappa

\daleth \beth Τ λ \gimel

#### $A_MS$ delimiters

\urcorner \ulcorner L \llcorner , \lrcorner

#### $A_MS$ relational symbols

≦ \lega  $\leq$ \legslant ≲ \lesssim  $\leqslant$ \eqslantless

≨ \lessapprox  $\approx$ \approxeq

< \lessdot **~** \111  $\leq$ \lessgtr \lesseqgtr

÷ \lesseqqqtr \doteqdot ≒ \fallingdotseq \risingdotseq  $\sim$ \backsim  $\geq$ \backsimeq

 $\subseteq$ \subseteqq  $\subseteq$ **\Subset** 

\sqsubset  $\preccurlyeq$ \preccurlyeq  $\preceq$  $\triangleleft$ \curlyeqprec \precsim

≋  $\triangleleft$ \vartriangleleft \precapprox

⊴ \trianglelefteq F \vDash

**\Vvdash** \smallsmile  $\parallel \vdash$ \smallfrown <u>~</u>  $\overline{\phantom{a}}$ \bumpeq  $\geq$ ≎ **\Bumpeq** \qeqq

≽ \eqslantgtr  $\geqslant$ \geqslant ≋  $\gtrsim$ \gtrsim \gtrapprox シ

**>>>** \gtrdot \ggg

 $\geq$  $\geq$ \gtrless \gtreqless \gtreqqless 0 \eacirc  $\triangleq$ \triangleq \circeq **\thicksim** \thickapprox  $\approx$ \supseteqq  $\supset$ \Supset

 $\Box$ \sqsupset \succcurlyeq ≽  $\geqslant$  $\succeq$ \curlyeqsucc \succsim

≿ \succapprox  $\triangleright$ \vartriangleright

⊵ \trianglerighteq  $\vdash$ **\Vdash** 

\shortmid \shortparallel Ι Ш Ŏ \between Ψ \pitchfork

\blacktriangleleft  $\propto$ \varpropto ◀

\therefore \backepsilon Э

\blacktriangleright \because

## $\mathcal{A}_{\mathcal{M}}\!\mathcal{S}$ negated relational symbols

⊀≉¼₩₩₩≈₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩	<pre>\nless \nleqslant \lneq \lvertneqq \lnapprox \npreceq \precnapprox \nshortmid \nvdash \ntriangleleft \nsubseteq \varsubsetneqq \varsubsetneqq \quarsubsetneqq \ngeqq \ngeqq \gneqq \gneqq \gnsim \nsucc \nsucceq \succnapprox \nshortparallel \nvDash \ntriangleright</pre>	女女孩 女子 医医子女 医牙腔 医牙头 医牙腔 医牙腔 医甲状腺 医甲状腺 医甲状腺 医甲状腺 医甲状腺 医甲状腺 医甲状腺 医甲状腺	<pre>\nleq \nleqq \lneqq \lnsim \nprec \precnsim \nsim \nmid \nvDash \ntrianglelefteq \subsetneqq \subsetneqq \ngtr \ngeqslant \gneq \grenteqq \grenteqq \grapprox \nsucceq \succnsim \ncong \nparallel \nVDash \ntrianglerighteq</pre>
$\not$	\ntriangleright	⊭	\ntrianglerighteq
₽⊋	<pre>\nsupseteq \supsetneq \supsetneqq</pre>	<b>≱</b> <b>⊋</b>	\nsupseteqq \varsupsetneq \varsupsetneqq

# Miscellaneous AMS symbols

ħ	\hbar	ħ	\hslash
Δ	\vartriangle	$\nabla$	\triangledown
	\square	$\Diamond$	\lozenge
$\bigcirc$	\circledS	_	\angle
X	\measuredangle	∄	\nexists
Ω	\mho	$\exists$	\Finv
G	\Game	k	\Bbbk
1	\backprime	Ø	\varnothing
$\blacktriangle$	\blacktriangle	lacktriangle	\blacktriangledown
	\blacksquare	<b>♦</b>	\blacklozenge
*	\bigstar	⋠	\sphericalangle
С	\complement	$\partial$	\eth
/	\diagup	\	\diagdown