Logic Symbols

Logic signs and symbols

Logic math symbols table

Symbol	Symbol Name	Meaning / definition	Example
·	and	and	$x \cdot y$
∧	caret / circumflex	and	$x \wedge y$
&	ampersand	and	$x \,\&\, y$
+	plus	or	$x + y$
∨	reversed caret	or	$x \vee y$
|	vertical line	or	$x \mid y$
x'	single quote	not - negation	x'
$\overline{x}$	bar	not - negation	$\overline{x}$
¬	not	not - negation	$\neg x$
!	exclamation mark	not - negation	$! \, x$
⊕	circled plus / oplus	exclusive or - xor	$x \oplus y$
~	tilde	negation	$\sim x$
⇒	implies		
⇔	equivalent	if and only if (iff)	
↔	equivalent	if and only if (iff)	
∀	for all		
∃	there exists		
∄	there does not exists		
∴	therefore		
∵	because / since		