

MATH EDITOR USER GUIDE

The Woot Math editor allows you to quickly and easily create mathematical equations.

Backticks (`) are used to turn on the equation mode.

Parenthesis can be used to logically group portions of equations.

Some useful examples are shown to the right.

Greek letters are made by typing the letter name. Using a capital letter on the name will produce the capital Greek letter.

`delta`	\rightarrow	δ
`Delta`	\rightarrow	Δ
`pi`	→	π
`theta`	\rightarrow	θ

For example:

MARKUP LANGUAGE SUPPORT

The Woot Math editor supports both AsciiMath and LaTeX for writing mathematical equations.

Some AsciiMath markup is outlined in this document, and provides a simple way to create mathematical equations.

A subset of LaTeX markup language is also supported, and can be used to create more advanced equations.

Backticks (`) should surround the equation when writing in either AsciiMath or LaTeX.

TYPING ———	
`1/2`	$\frac{1}{2}$
`b^2`	b^2
`sqrt 2`	$\sqrt{2}$
`2 *2 = 4`	$2 \cdot 2 = 4$
`2 xx 2 =4`	2 imes 2 = 4
`4 / 2 = 2`	$rac{4}{2}=2$
`4 // 2 = 2`	4/2=2
`4 -: 2 = 2`	$4 \div 2 = 2$
`-2 <= a <= 2`	$-2 \leq a \leq 2$
`x=(-b+-sqrt(b^2-4ac))/(2a)`	$x=rac{-b\pm\sqrt{b^2-4ac}}{2a}$
`int sec^2udu = tanu`	$\int \sec^2 u du = \tan u$
Is the area of a triangle with base `b` and height `h` `1/2 bh`?	Is the area of a triangle with base b and height $h \ \frac{1}{2}bh?$
Is the area of a circle with radius `r` `pi r^2`?	Is the area of a circle with radius $r \pi r^2$?



COMMON SYMBOLS

TYPING -	+ PRODUCES	TYPING →	PRODUCES	TYPING -	→ PRODUCES
+	+	sqrt	\checkmark	>=	\geq
-	_	root(n)(x)	$\sqrt[\eta]{x}$	in	\in
*		del	∂	!in	¢
**	*	grad	∇	-=	\equiv
XX	×	00	∞	~~	2
-:	•	/_	_	+-	±
sum	\sum	!=	\neq	//	/
int	ſ	<=	\leq	prop	\propto
30^circ	30°	>=	\geq		

ACCENTS

TYPING 🕂	PRODUCES	TYPING \rightarrow produces		TYPING → PRODUCES	
hat x	\hat{x}	ul x	\underline{x}	dot x	<i>±</i>
bar x	\overline{x}	vec x	$ec{x}$	ddot x	\ddot{x}

ADVANCED NOTATION

Subscripts must come before superscripts:

`int_0^1 f(x)dx` $\int_0^1 f(x) dx$

Matrices		Column Vectors		Complex Subscripts	
`[[a,b],[c,d]]`	$\begin{bmatrix} a & b \\ c & d \end{bmatrix}$	`((a,b),(c,d))`	$\begin{pmatrix} a & b \\ c & d \end{pmatrix}$	`lim_(x -> oo)`	$\lim_{x\to\infty}$

System of Equations

`f(x)={ (0, if x<=0) , (sin(x), if 0<x<(3pi)/2), (-1, if x>=(3pi)/2) :} ` $f(x) = \begin{cases} 0 & \text{if } x \le 0 \\ \sin(x) & \text{if } 0 < x < \frac{3\pi}{2} \\ -1 & \text{if } x \ge \frac{3\pi}{2} \end{cases}$