

How to Input Math

Basic Operations

Operation		Command
addition	$a+b$	a+b
subtraction	$a-b$	a-b
multiplication	$a \cdot b$	a*b
division	$\frac{a}{b}$	a/b
exponentiation	a^b	a^b

Constants & Symbols

Constant/Symbol	Command
π	Pi
e	exp(1)
i	I
∞	infinity

Functions

Function		Command
trigonometric	$\sin(x), \cos(x), \tan(x),$ $\csc(x), \sec(x), \cot(x)$	$\sin(x), \cos(x), \tan(x),$ $\csc(x), \sec(x), \cot(x)$
inverse trig	$\arcsin(x), \arccos(x), \arctan(x)$	$\arcsin(x), \arccos(x), \arctan(x)$
exponential	e^x	exp(x)
logarithmic	$\ln(x), \log_a(x)$	$\ln(x), \ln(x)/\ln(a)$
square root	\sqrt{x}	sqrt(x)
n th root	$\sqrt[n]{x}$	surd(x,n)
hyperbolic	$\sinh(x), \cosh(x),$ $\tanh(x), \operatorname{sech}(x)$	$\sinh(x), \cosh(x),$ $\tanh(x), \operatorname{sech}(x)$
absolute value	$ x $	abs(x)
factorial	$x!$	factorial(x)

Vectors & Matrices

Function		Command
horizontal vector	$(a \ b \ c)$	<a b c>
vertical vector	$\begin{pmatrix} a \\ b \\ c \end{pmatrix}$	<a,b,c>
matrix	$\begin{pmatrix} a & b & c \\ d & e & f \\ g & h & i \end{pmatrix}$	< <a b c> , <d e f> , <g h i> > OR < <a,d,g> <b,e,h> <c,f,i> >

Be sure to read each question carefully and make sure that you understand how to enter your answer.