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), sech(x)
absolute value	$\lvert x \rvert$	abs(x)
factorial	$x!$	factorial(x)

Vectors & Matrices

Function		Command
horizontal vector	$\begin{pmatrix} a & b & c \end{pmatrix}$	<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.