**Input Format Guidelines**

* Only single-variable functions using “x” as a variable are supported.
* The natural exponential (*e*) can be entered as “E” and pi (π) can be entered as “PI”.
* The “\*” operator must be used wherever multiplication is implied. *[ex. 2(3x+5) = 2\*(3\*x+5)]*
* Spaces can be used if desired but are not necessary.
* “(“ and “)” are the only acceptable parentheses.

**Supported Operators and Functions**

**Addition: +** *[ex. 2+2]* **Sine: sin(# in degrees)** *[ex. sin(30)]*

**Subtraction: -** *[ex. 4-4]* **Cosine: cos(# in degrees)** *[ex. cos(60)]*

**Multiplication: \*** *[ex. 5\*2]* **Tangent: tan(# in degrees)** *[ex. tan(30)]*

**Division: /** *[ex. 10/5]* **Arc Sine: asin(#)** *[ex. asin(1)] [Results in Radians]*

**Exponential: pow(x,#)** *[ex. pow(3,2)]* **Arc Cosine: acos(#)** *[ex. acos(0)] [Result in Radians]*

**Square Root: sqrt(#)** *[ex. sqrt(4)]* **Arc Tangent: atan(#)** *[ex. atan(50)] [Results in Radians]*

**Absolute Value: abs(#)** *[ex. abs(-50)]*

**Natural Log (base *e*): log(#)** *[ex. log(50)]*

**Convert to Degrees: toDegrees(# in radians)** *[ex. toDegrees(5)]*

**Examples**

3x2+2x+5 = 3\*pow(x,2)+2\*x+5

= sqrt(4\*x)\*cos(toDegrees(PI))-abs(-10)

= asin(.5)+5\*x

= log(20)+6\*pow(E,x)

2cos(60) = 2\*cos(60)\*((4\*(3\*pow(x,2)+5))/sqrt(25))