TD-01 Guide

0) Run Calculator.java to Operate

Supported Features

1) Basics
    a) Add ex. 3+2 =5
    b) Subtract ex. 3-2 = 1
    c) Multiply ex. 3*2= 6
    d) Divide ex. 3/2 = 1.5
    e) Power 3^2 = 9
    f) Mod 3% 2 = 1
    g) Factorial 3! = 6
2) Functions
    a) root(index,radicand)
       Root Function - Math root function
       Example: root(2,16) = 4
    b) abs(value)
       Absolute Value Function - Returns the distance to 0
       Example: abs(-3) =3
    c) floor(value)
       Floor Function - Returns the smallest integer less than the value
       Example: foor(3.2) =3
    d) ceil(value)
       Roof Function - Returns the largest integer less than the value
       Example: ceil(3.2) =4
    e) gcf(value,value)
       Greatest Common Factor Function- Returns the greatest common factor of two numbers
       Example: gcf(15,20) =5
    f) lcm(value)
       Least Common Multiple Function- Returns the least common multiple of two numbers
       Example: lcm(15,20) =60
    g) ln(value)
       Natural Log function- Returns the natural log of a number
       example : ln(e) = 1

h) log(base,value)
Log Base Function- Given a base, return the exponent the base must be raised to produce the value.
Example: log(10,100) = 2

i) choose(n,r)
Choose Function- How many different set of r item be chosen from a group of n.
Example: choose(12,5) = 792

j) permute(n,r)
Permute Function-How many different ways of r item be chosen from a group of n items.
Example: permute(6,3)) = 120

k) sin(value), cos(value), tan(value)
asin(value), acos(value), atan(value)
arcsin(value). arccos(value), arctan(value)
Trigonometric Functions- Given a value, put it through the trig function and return a result. Make sure to turn degrees or radians mode.
Examples: degrees <- Note how they are on separate lines
sin(30) = .5
radian
sin(pi) = 1

3) PEMDAS and Multiple Functions-
The math equation can be as long as it wants to be.
Example: 3sin(30)+permute(16,2)/log(10,100) = 121.5

4) Graphs-
Graph anything you desire. Multiple graphs work. The color is in the order of the rainbow.
Examples: graph 3x
graph 3x^ 2= 0 16x 17x
Warnings: Graph is Slow
Graph requires at least 1 x.
Graph may give out bad results.