

Creating a Desmos Account:

Log on to the computer and open Google Chrome, Go to www.desmos.com.

Click the button in the top right corner "Create Account"

On your project rubric Desmos Information, place the name you used to create your Desmos account so that I can search your project.

Getting to know the Desmos Calculator:

Go to www.desmos.com, Select Launch Calculator:

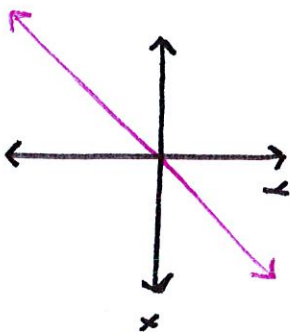
Type in the following equations and determine what kind of shape is made.

1	$(y)^2 + (x)^2 = 16$	domain
2	$(y-2)^2 + (x+2)^2 = 1$	domain
3	$(y-2)^2 + (x-2)^2 = 1$	domain
4	$y = x^2 \{-1 < x < 1\}$	domain
5	$y = -x \{-6 < x < -2.828\}$	domain
6	$y = -\sqrt{-x+2} - 1 \{-2 < x < 0\}$	domain
7	$y = x \{2.828 < x < 6\}$	domain
8	$x = 0 \{4 < y < 6\}$	range
9	$y = - x - 4 \{-4 < x < 4\}$	domain
10	$y = - x - 4 \{-4 < x < 4\}$	domain

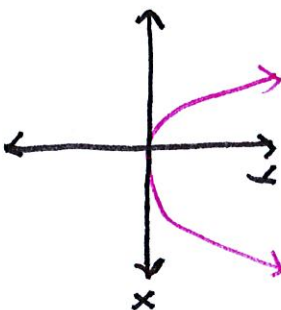
What do the brackets after a function do (examples in equations 4-10)?

Make sure you can input the following functions, you may want to make notes of characteristics of the functions and DRAW a rough sketch of the shape the function makes.

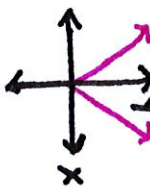
Linear Function, parent function: $y=x$



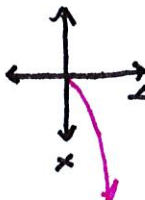
Quadratic Function, parent function: $y = x^2$



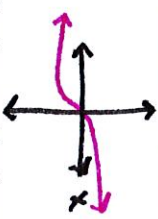
Absolute value Function, parent function: $y = |x|$



Square root Function, parent function: $y = \sqrt{x}$



Cube root Function, parent function: $y = \sqrt[3]{x}$

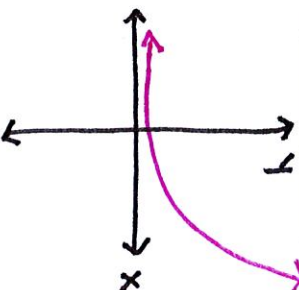


Cubic Function, parent function: $y = x^3$

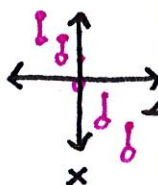


Exponential Function, parent function: $y = a \cdot b^x$

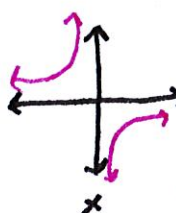
a and b should be numbers. a changes the y-intercept and b changes the steepness



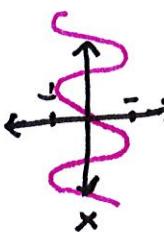
Greatest Integer Function, parent function: $y = [x]$



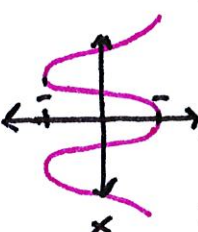
Inverse variation Function, parent function: $y = \frac{1}{x}$



Sine Function, parent function: $y = \sin(x)$



Cosine Function, parent function: $y = \cos(x)$



Tangent Function, parent function: $y = \tan(x)$

