Graphing Problem Set 2

1. Graph the following equations on the same coordinate axis. Use at least 5 different x-values to find 5 points on the graph.

Note: The following are absolute value functions.

a $y = |x|$

b $y = |3x|$

c $y = |x + 5|$

2. Graph the following equations on the same coordinate axis. Plot at least 2 different x-values for Part a and Part b, and use at least 2 different y-values for Part c and Part d.

Note: Each of the following equations is an equation for a straight line.

a $y = 4$

b $y = -2$

c $x = 2$

d $x = 6$

3. Graph the following equations on the same coordinate axis. Use at least 5 different x-values to find 5 points on the graph.

a $y = x^3$

b $y = (x - 2)^3$

c $y = (x - 2)^3 + 2$

d $y = (x - 2)^3 - 3$

4. Go to https://www.desmos.com, and input each equation into the graphing calculator to check your work.