



Graphing Problem Set 1

1. Graph the following equations on the same coordinate axis. Use at least 2 different x -values to find 2 points on the graph.

a $y = 3x$

b $y = 3x - 2$

c $y = 3x + 5$

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

a $y = x^2$

b $y = (x + 4)^2$

c $y = (x + 4)^2 - 7$

d $y = (x + 4)^2 + 2$

3. Graph the following equations on the same coordinate axis. Use at least 7 different x -values to find 7 points on the graph.

a $y = x^3$

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

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

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

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