

Algebra 1: Unit 4 Problem Set D

Mr. Chamberlain

Name _____

Date _____ Period _____

SHOW YOUR WORK for each of the problems.

USE A RULER FOR ALL GRAPHS!

1. Find the slope of the lines through the following pairs of points. You may use the graph at bottom-right for scrap work.

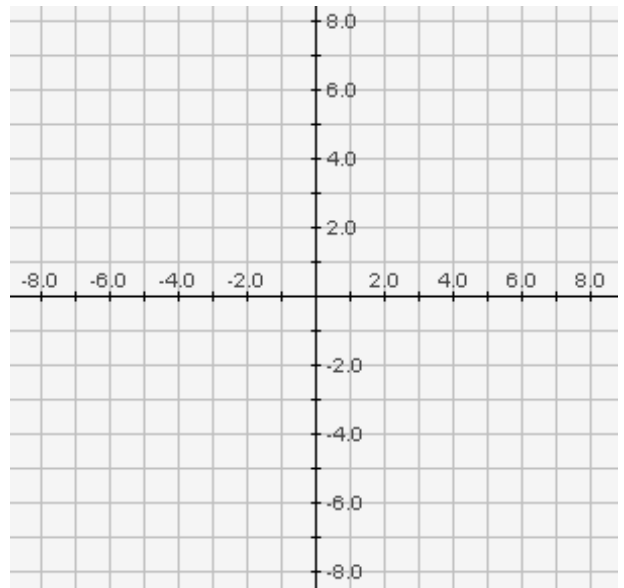
a) $(3, -12)$ $(3, 23)$

d) $(-\frac{1}{2}, 4)$ $(\frac{1}{4}, 9)$

b) $(-27, -56)$ $(63, 4)$

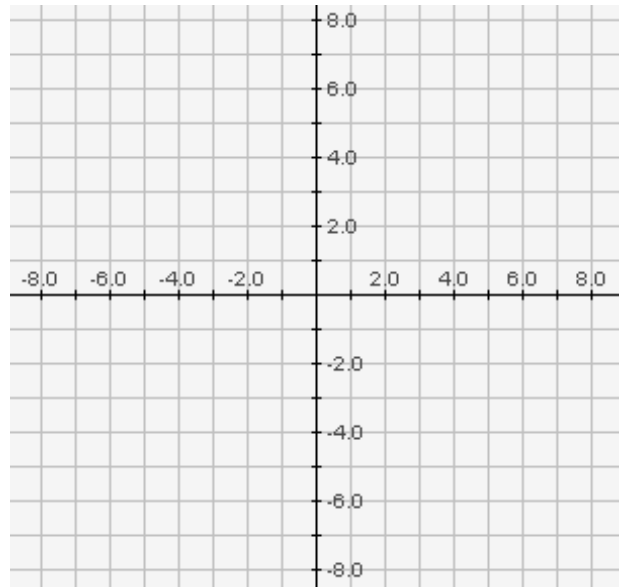
e) $(-\frac{1}{9}, -\frac{1}{2})$ $(-3, -\frac{1}{2})$

c) $(4, -3)$ $(-11, -3)$

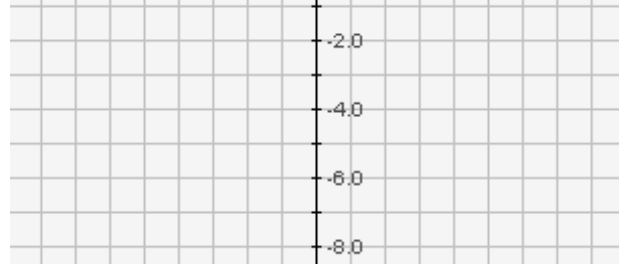


2. Sketch a graph of the following equations using any method. Show all work. Convert each of the equations to slope-intercept form.

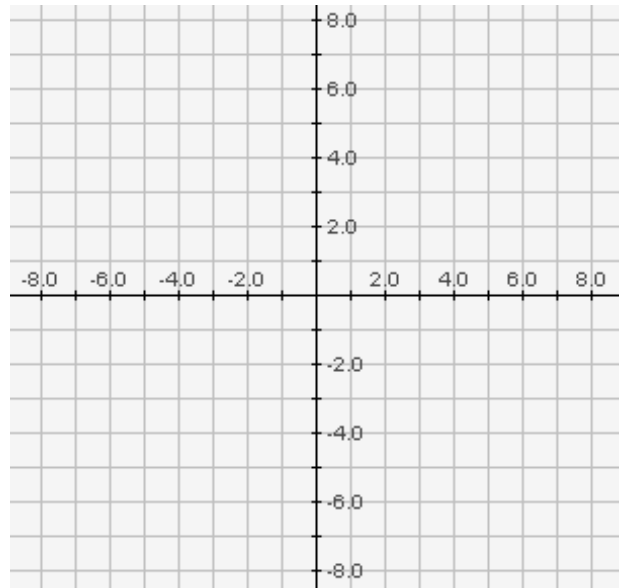
a) $2x + y = 8$



b) $2x - y = 8$



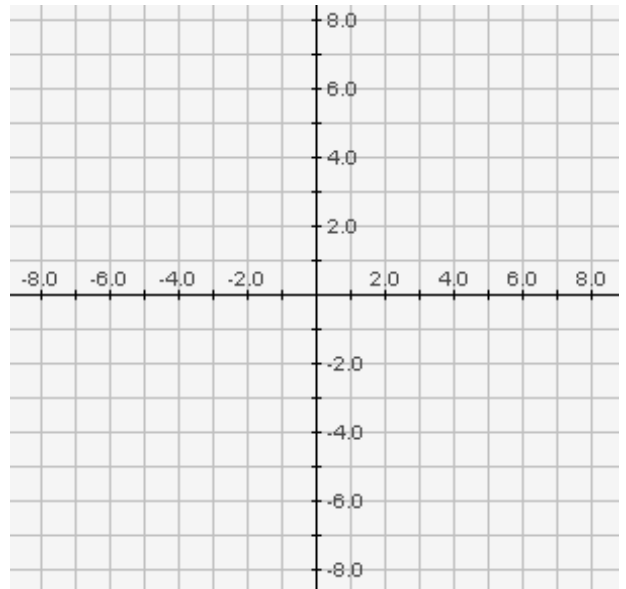
c) $3x - 2y - 8 = 4$



d) $2x + 3y + 8 = -4$

3. Sketch the line through the following sets of points.
What is the equation of each line?

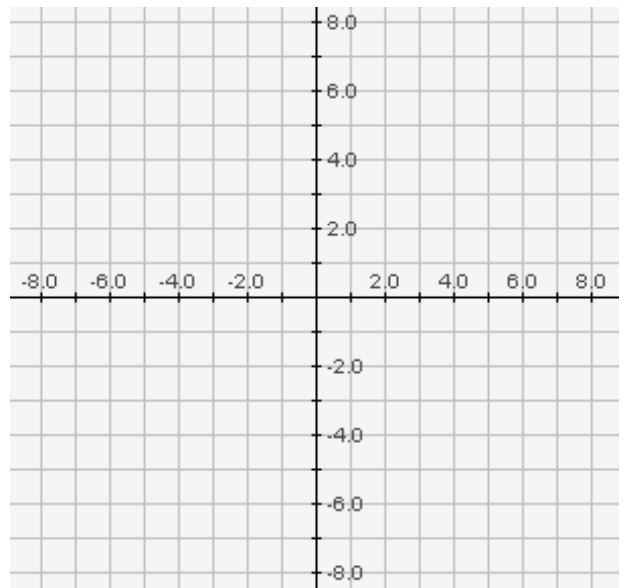
a) $(-4, -5)$ $(0, -5)$ $(6, -5)$



b) $(2, -5)$ $(2, -1)$ $(2, 7)$

4. Graph:

a) $y = -|x + 5| - 2$



b) $y = 2|x - 3| - 1$