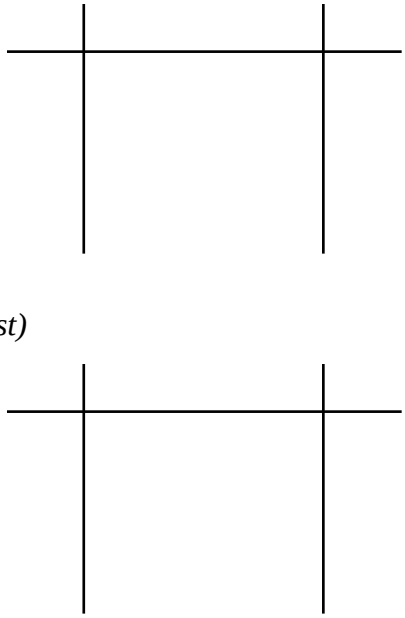
Name: _____ Period: _____

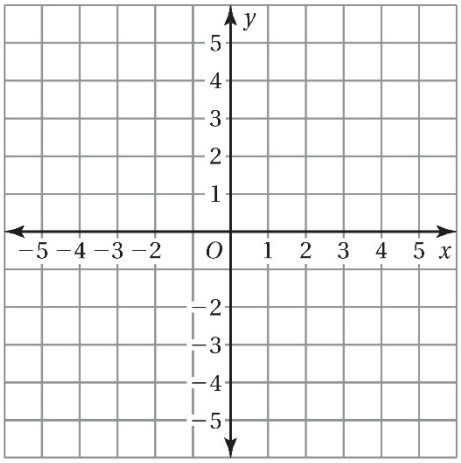
4.1- 4.3 Review

Graph both linear equations on the coordinate plane on the right. Make sure you use an input/output table with at least 3 ordered pairs for each. ***Label the line with the problem number.***

1) $y = \frac{1}{3}x - 2$

2) $y + x = 3$ *(hint: solve for y first)*

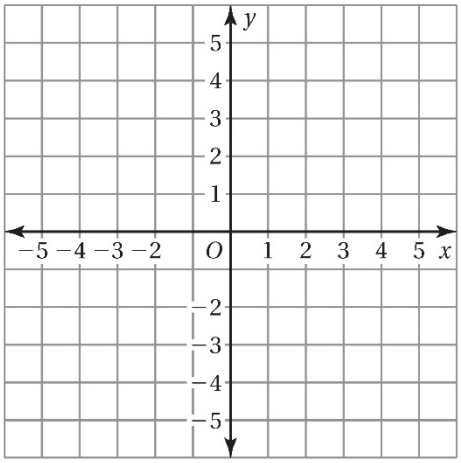




Graph both of the equations on the coordinate plane on the right. You may you a input/output table if you wish.

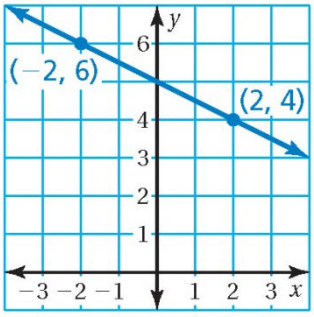
3) $y = -3$

4) $x = 4$



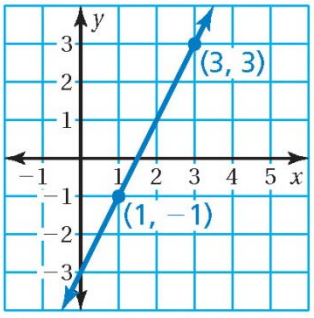
Find the slope of the line in ***simplest form***.

5)

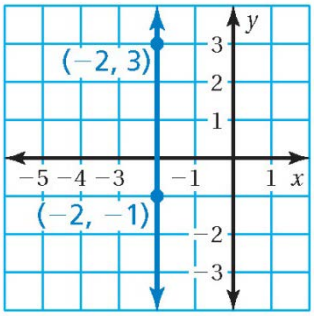


m = _____

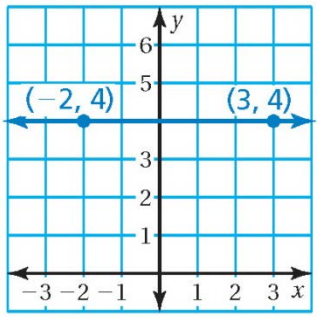
6)



m = _____

7) 

m = _____

8) 

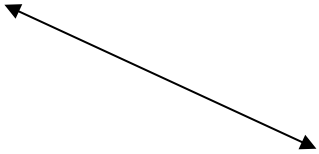
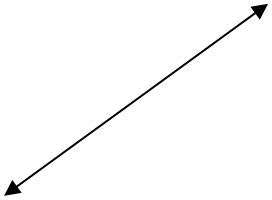
m = _____

9) What is the slope of the line that is parallel to the line in problem #5. What do we know about the slope of parallel lines?

10) The slope of any line can be written as a ratio that represents its _____ over its _____.

11) Match the slope with the line best represented by the slope.

Zero Slope _____ Positive Slope _____ Negative Slope _____ Undefined Slope _____

a)	b)	c)	d)
			

12) Find the slope of the line that passes through the points. Write your answer in simplest form.

a) (4, 8) and (6, 12) ***m*** = _____

b) (-4, 9) and (-4, -1) ***m*** = _____

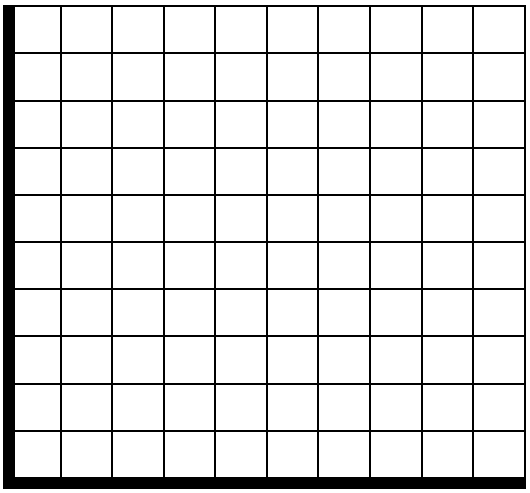
c) (2, 6) and (-8, 4) ***m*** = _____

d) (-5, -7) and (1, -7) ***m*** = _____

13) Find the missing coordinate if a line passes through $(-6,-3), (-10, y)$ and has a slope of –2.

14) There is a holiday special at In-N-Out today!! The cost *y (in dollars)* for *x* number of Double-Double burgers you get is represented by the equation $y = 2x$.

a) Graph the equation using at least 4 ordered pairs. *Be sure to label both axis!*



b) What is the slope of the line? Interpret (explain the meaning of) the slope.

m = _____ Interpret:

15) To make a special Halloween green hair dye, you mix 3 drops of yellow dye (*y*) for every 6 drops of blue dye (*x*).

a) Write an equation that represents the situation in simplest form.

b) What is the slope of the line? Interpret the slope. *(what does the slope mean in this situation?)*

m = _____ Interpret:

c) How many drops of yellow dye would you need if there were 36 drops of blue dye? *(use your equation from part a)*