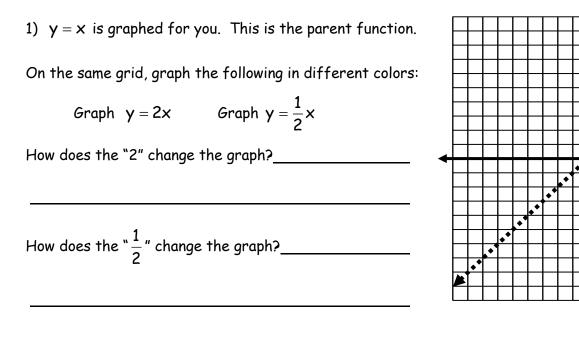
Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

The slope-intercept form for a linear equation is y = b + mx. The coefficient of x and the constant have a special role in graphing a linear function.

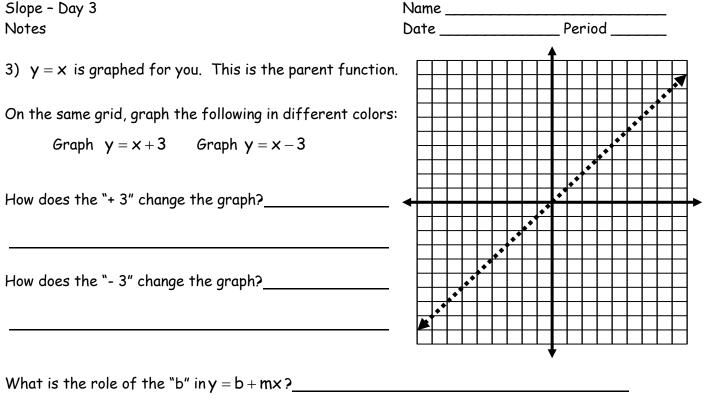


What is the role of the "m" in y = b + mx?\_\_\_\_\_

2) y = x is graphed for you. This is the parent function. On the same grid, graph the following in different colors: Graph y = -x Graph y = -2x Graph  $y = -\frac{1}{2}x$ How does the "-1" change the graph?\_\_\_\_\_\_ How does the "-2" change the graph?\_\_\_\_\_\_ How does the " $-\frac{1}{2}$ " change the graph?\_\_\_\_\_\_

What is the role of the "m" when it is negative in y = b + mx?\_\_\_\_\_

Slope - Day 3



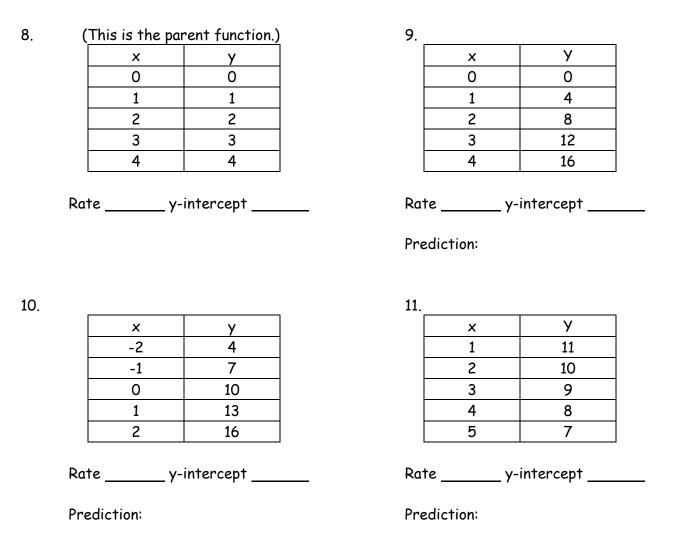
Without graphing, make a prediction on the appearance of the graph (in comparison to y = x) of the following. (Is the graph translated above or below the graph of y = x? Does it have a positive or negative correlation? Is the graph steeper or flatter than the graph of y = x?)

	Equation	Translation: Up/Down	Correlation: Positive/Negative	Steeper/Shallow
4.	$\gamma = -4 + 3x$			
5.	$\gamma = 5 + \frac{3}{2}x$			
6.	2x + y = -6			
7.	x + 2y = 6			

Slope – Day 3 Notes

Name	
Date _	Period

Just by looking at the table, make a prediction on the appearance of the graph (in comparison to y = x) of the following. (Is the graph translated above or below the graph of y = x? Does it have a positive or negative correlation? Is the graph steeper or flatter than the graph of y = x?)



- 12. Describe the change that occurs when the graph of y = x + 3 is changed to y = x 1.
- 13. Describe the change that occurs when the graph of y = -x + 1 is changed to y = -3x 2.