Slope – Day 3
Assignment

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 more shallow than the graph of $y = x$?)

1. (This is the parent function.)

x	y
0	0
1	1
2	2
3	3
4	4

Rate _____ y-intercept _____

2.

x	y
0	-4
1	-3
2	-2
3	-1
4	0

Rate _____ y-intercept _____

Prediction:

3.

x	y
-2	5
-1	7
0	9
1	11
2	13

Rate _____ y-intercept _____

Prediction:

4.

x	y
1	0
2	-3
3	-6
4	-9
5	-12

Rate _____ y-intercept _____

Prediction:

5.

x	y
1	-1
2	-5
3	-9
4	-13
5	-17

Rate _____ y-intercept _____

Prediction:

6.

x	y
2	-5
3	-2
4	1
5	4
6	7

Rate _____ y-intercept _____

Prediction:

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7. Describe the change that occurs when the graph of $y = x + 2$ is translated to $y = x - 5$.

8. Describe the change that occurs when the graph of $y = x$ is transformed to $y = 5x$.

9. Describe the change that occurs when the graph of $y = x$ is transformed to $y = \frac{1}{6}x$.

10. Describe the change that occurs when the graph of $y = 2x + 3$ is transformed to $y = -\frac{1}{2}x + 3$.

11. Where do the graphs of $y = 3x$ and $y = 3x + 4$ intersect the y-axis and what is the relationship between the two lines?

12. Give an example of two lines that are parallel and cross the y-axis 6 units apart.

13. Give an example of two lines who cross the y-axis at the same location, but one is steeper than the other.