

LESSON 20: Effects of Changes in Slope and y -intercept**Homework**

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1. In the equation $y = 6x + 1$, if you were to divide the slope by 3, what would happen to the graph of the equation?

2. For the line described by the equation $y = 3x - 2$, if the y -intercept moves to 3 and the slope remains the same, how does the x -intercept change?

3. In the graph of $y = \frac{1}{2}x - 2$, if you were to triple the slope and triple the value for the y -intercept, what would happen to the x -intercept?

4. Describe the change to the graph of $y = -2x + 6$ when $y = -2x - 3$ is graphed?

5. If the slope of a line changes from -2 to $-\frac{1}{2}$, and the y -intercept changes from -4 to 0, then the graph of the line will be affected in what ways?

6. Describe the change to the graph of $y = x + 3$ when $y = \frac{1}{2}x + 3$ is graphed?

7. If the slope of a line changes from $-\frac{1}{3}$ to -3 , and the y -intercept changes from -1 to 1, then the graph of the line will be affected in what ways?

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- 8.** If the slope of a line changes from -1 to 2 , and the y -intercept changes from 0 to 5 , then the graph of the line will be affected in what ways?

- 9.** If the slope of a line changes from -1 to $-\frac{1}{4}$, and the y -intercept changes from -1 to 3 , then the graph of the line will be affected in what ways?

- 10.** Describe the change to the graph of $y = 4x - 3$ when $y = 4x$ is graphed?
