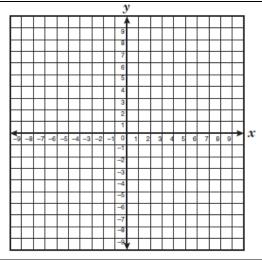
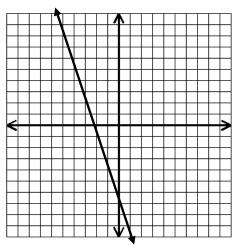
Retest Review: Parameter Changes

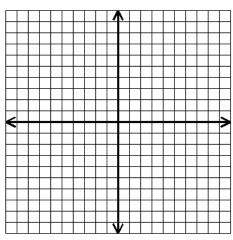
1. Write and graph the linear function that includes the points (4, 9) and (-2, -6).



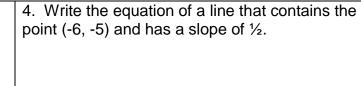
2. The graph of a line that contains the points (-3, 2) and (-1, -4) is shown below.

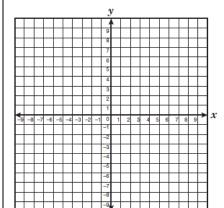


Graph the line where the slope is doubled and the y-intercept remains constant.



3. Find the x- and y-intercepts of the given line: 6x - 8y = -24



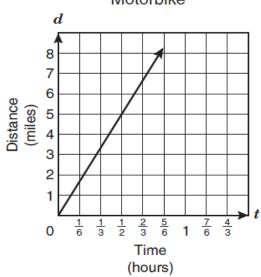


x-int: _____

y-int: _____

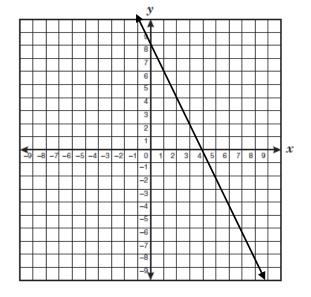
5 The graph shows the distance a certain motorbike can travel at a constant speed with respect to time.

Motorbike



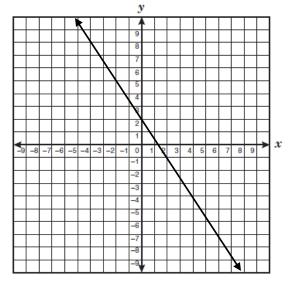
Which of the following statements is true?

- A. In 1 hour the motorbike travels 8 miles.
- B. As the time increases, the distance decreases.
- C. The motorbike travels 5 miles in $\frac{1}{2}$ hour.
- D. If the trend continues, the motorbike will travel 6 miles in an hour.
- 6. What is the equation of the linear function graphed below?



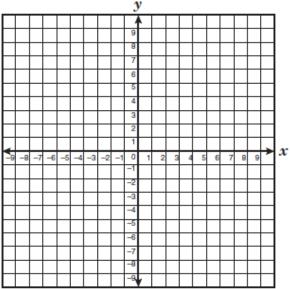
Equation:

7. What are the slope and y-intercept of the equation of the line graphed below?

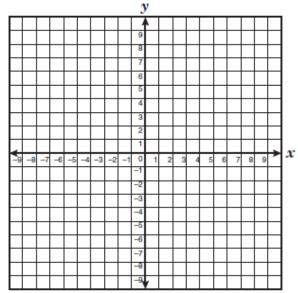


Slope : _____ y-intercept: ____

- 8. If the slope of the equation $y = -\frac{2}{3}x 6$ is changed to $\frac{3}{2}$ and the y-intercept is changed to
- (0, 2), which statement best describes this situation?

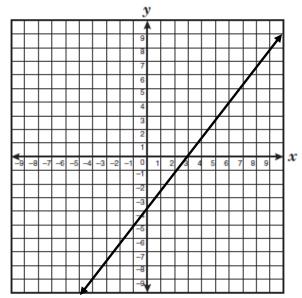


- A. The new line is perpendicular to the original line.
- B. The new line is parallel to the original line.
- C. The new line and the original line have the same y-intercept.
- D. The new line and the original line have the same x-intercept.
- 9. How does the graph of y = 2x 5 compare to the graph of y = 3x 5?



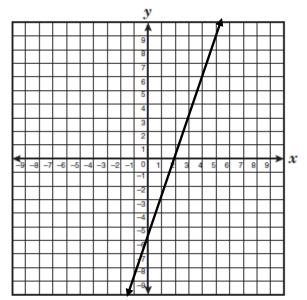
- A. The slope of y = 2x 5 is less steep.
- B. The slope of y = 2x 5 is steeper.
- C. The graph of y = 2x 5 has a greater y-intercept.
- D. The graph of y = 2x 5 has a smaller y-intercept.

10. The graph of a line is shown below.



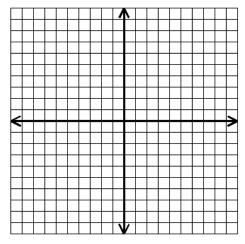
If the slope of this line is multiplied by -2 and the y-intercept increases by 1, what is the equation of the new line?

11. Which best describes the effect on the graph of f(x) = 3x - 6 if the y-intercept is changed to 4?

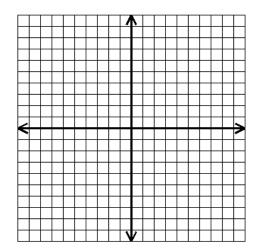


- A. The new line passes through the origin.
- B. The x-intercept decreases.
- C. The slope decreases.
- D. The y-intercept decreases.

12. Graph 6x + y = 8



13. Graph 3x + 4y = -12



Answers in random order:

$$y = -2x + 8$$

$$y = -2x + 8$$
 $y = \frac{5}{2}x - 1$ (0, 3) (-4, 0) A C B A $-\frac{3}{2}$ 2 $y = -6x - 7$

$$y = -6x - 7$$

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

$$y = -\frac{8}{3}x - 3$$

$$y = -6x + 8$$

$$y = \frac{1}{2}x - 2$$
 $y = -\frac{8}{3}x - 3$ $y = -6x + 8$ $y = -\frac{3}{4}x - 3$