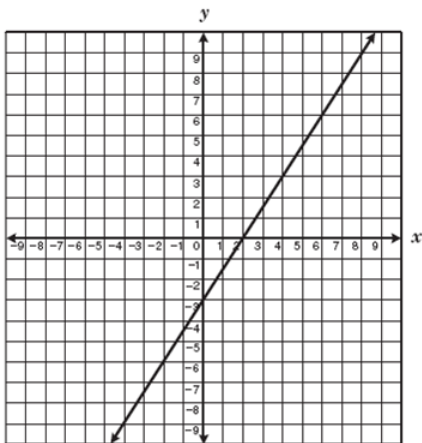


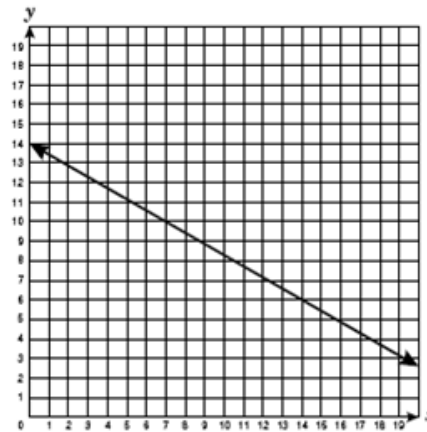
EOC REVIEW: RC#3

1. Which equation best represents the line on the graph?



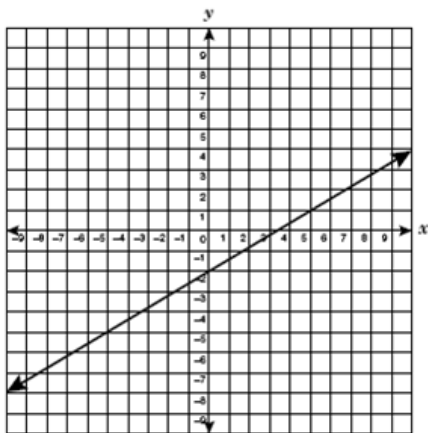
- F $3x - 2y = -4$
- G $3x + 2y = -6$
- H $3x - 2y = 6$
- J $2x - 3y = -6$

2. What is the slope of the linear function shown in the graph?



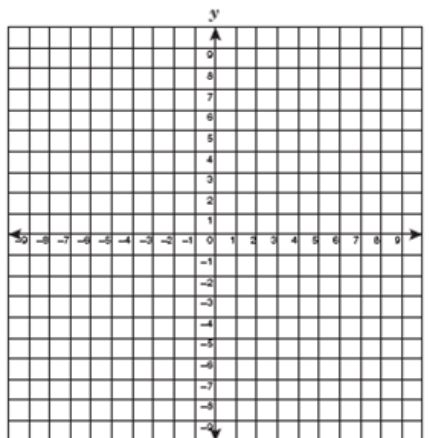
- A $-\frac{7}{4}$
- B $-\frac{4}{7}$
- C $\frac{4}{7}$
- D $\frac{7}{4}$

3. What is the rate of change of the graph below?



- F 3.5
- G 1.67
- H 0.6
- J -1.67

4. What is m , the slope of the line that contains the points $(2, 0)$, $(0, 3)$, and $(4, -3)$?



- F $m = \frac{3}{2}$
- G $m = \frac{2}{3}$
- H $m = -\frac{2}{3}$
- J $m = -\frac{3}{2}$

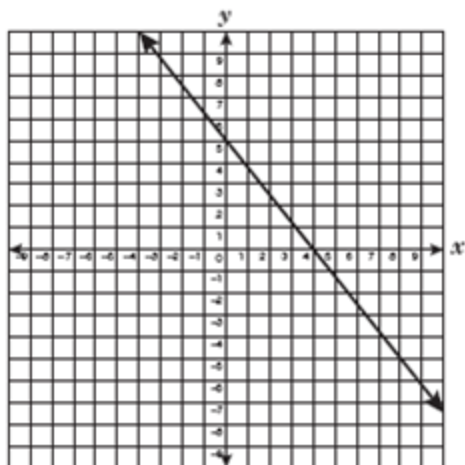
5. What is the slope of the function $-6x - 2y = 8$?

- F $\frac{1}{3}$
- G -3
- H -4
- J 3

6. Which of the following ordered pairs is the x -intercept or the y -intercept of the function $2x - y = 8$?

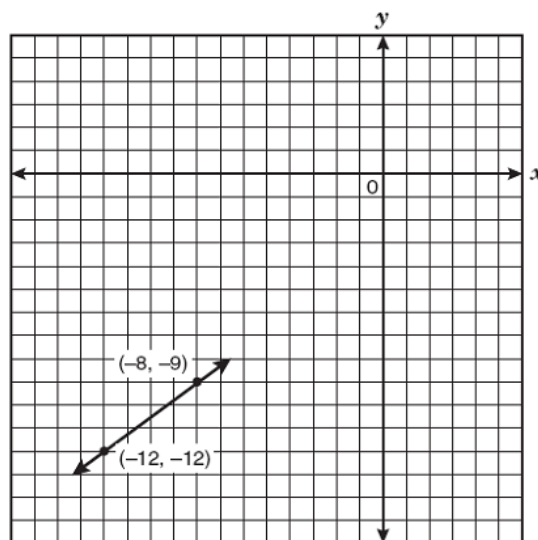
- A $(8, 0)$
- B $(0, 4)$
- C $(4, 0)$
- D $(0, 8)$

7. What are the x - and y -intercepts of the function graphed below?



- F (4, 0) and (5, 0)
 G (4, 0) and (0, 5)
 H (0, 4) and (5, 0)
 J (0, 4) and (0, 5)

8. What are the coordinates of the x -intercept of the function graphed below?



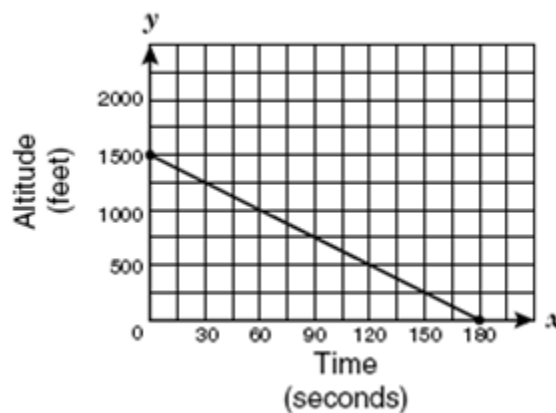
- F (4, 0)
 G (-3, 0)
 H (0, 4)
 J (0, -3)

9. What is the y -intercept of the linear function described by the data below?

x	y
-6	5.8
-3	3.4
2	-0.6
4	-2.2
7	-4.6

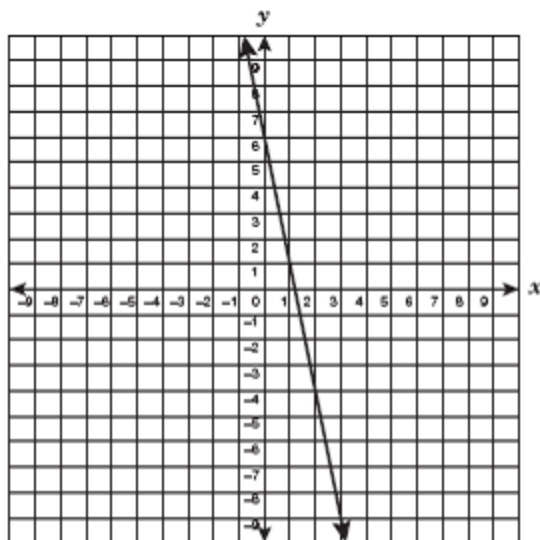
- F (0, 1)
 G (1.25, 0)
 H (0, -1)
 J (0, -1.25)

10. The line segment on the graph shows the altitude of a landing airplane from the time its wheels are lowered to the time it touches the ground. Which of the following best describes the slope of the line segment?



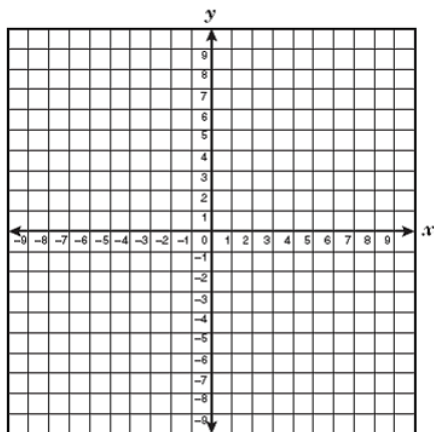
- F The plane descends about 1 foot per 8 seconds.
 G The plane descends about 8 feet per second.
 H The plane descends about 1 foot per 2 seconds.
 J The plane descends about 2 feet per second.

11. The graph of a linear function is shown on the coordinate grid below.



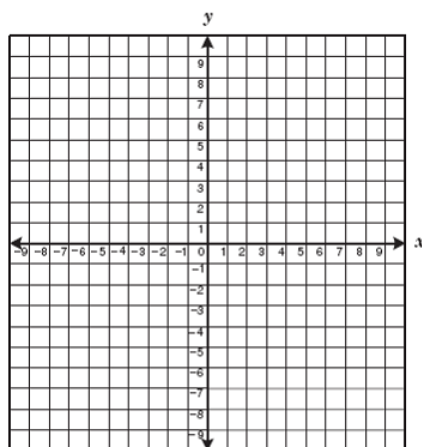
If the y -intercept is changed to $(0, 5)$ and the slope becomes -4 , which statement best describes the relationship between the two lines when they are graphed on the same coordinate grid?

- F The y -intercepts are 1 unit apart, and the lines are parallel.
 G The y -intercepts are 1 unit apart, and the lines intersect at $(1, 1)$.
 H The y -intercepts are 1 unit apart, and the lines are perpendicular.
 J The y -intercepts are 1 unit apart, and the lines intersect at $(1, 0)$.
12. If the slope of the equation $y = -\frac{3}{5}x + 4$ is changed to $\frac{3}{5}$ and the y -intercept is changed to $(0, -4)$, which statement best describes this situation?



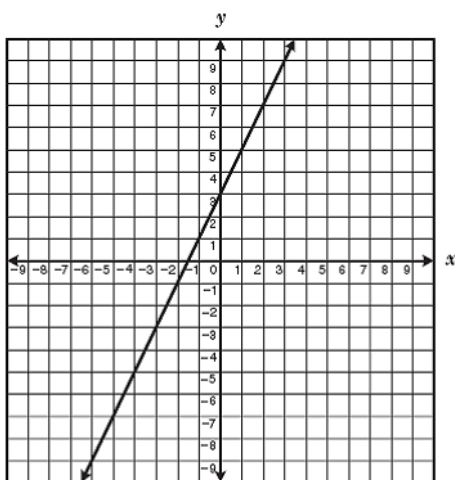
- A The new line is perpendicular to the original line.
 B The new line is parallel to the original line.
 C The new line and the original line have the same y -intercept.
 D The new line and the original line have the same x -intercept.

13. How does the graph of $y = 3x + 2$ compare to the graph of $y = 4x + 2$?



- F The slope of $y = 3x + 2$ is less steep.
 G The slope of $y = 3x + 2$ is steeper.
 H The graph of $y = 3x + 2$ has a greater y -intercept.
 J The graph of $y = 3x + 2$ has a smaller y -intercept.

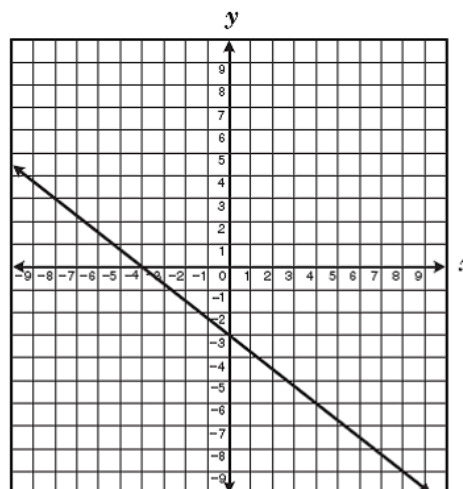
14. The graph of a line is shown below.



If the slope of this line is multiplied by -1 and the y -intercept decreases by 2 units, which linear equation represents these changes?

- A $y = -2x + 1$
- B $y = -x + 1$
- C $y = -x - 1$
- D $y = -\frac{1}{2}x - 1$

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



- A $m = -\frac{3}{4}$
 $b = -4$
- B $m = -\frac{4}{3}$
 $b = -4$
- C $m = -\frac{4}{3}$
 $b = -3$
- D $m = -\frac{3}{4}$
 $b = -3$

16. Which equation describes the line that passes through the point $(4, 7)$ and is parallel to the line represented by the equation $-3x + y = 4$?

- F $y = -3x + 19$
- G $y = 3x - 5$
- H $y = \frac{1}{3}x + 5\frac{2}{3}$
- J $y = -\frac{1}{3}x + 8\frac{1}{3}$

17. What is the equation of the line that passes through the points $(-4, 1)$ and $(4, -6)$?

- F $y = -\frac{7}{8}x - \frac{5}{2}$
- G $y = -\frac{7}{8}x + \frac{9}{2}$
- H $y = -\frac{8}{7}x + \frac{25}{7}$
- J $y = -\frac{8}{7}x - \frac{20}{7}$