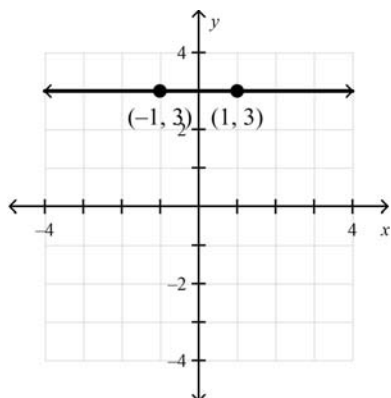


Chapter 4 Review**Multiple Choice**

Identify the choice that best completes the statement or answers the question.

Find the slope of the line.

_____ 1.



- | | |
|-------|-------|
| a. 1 | c. -1 |
| b. -0 | d. -2 |

Find the slope and the y-intercept of the graph of the linear equation.

_____ 2. $-4y + 2x = -16$

- | | |
|--|--|
| a. slope: $\frac{1}{2}$; y-intercept: 4 | c. slope: 2; y-intercept: $\frac{1}{2}$ |
| b. slope: $-\frac{1}{16}$; y-intercept: $\frac{1}{2}$ | d. slope: $\frac{1}{2}$; y-intercept: -16 |

_____ 3. A line passes through the point (1,3) and has a slope of 2. Which of these points also lies on this line?

- | | |
|----------|----------|
| a. (1,5) | c. (3,5) |
| b. (2,6) | d. (3,7) |

_____ 4. A line contains the points (0,9) and (6,6). Which point is also on this line?

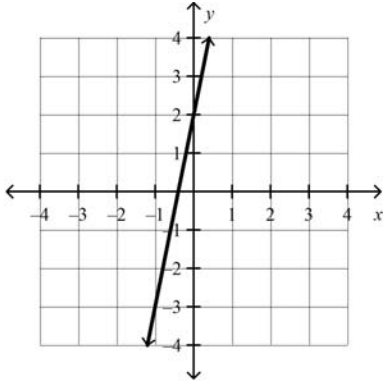
- | | |
|----------|-----------|
| a. (2,5) | c. (-8,5) |
| b. (4,7) | d. (4,4) |

_____ 5. Vivian charges \$4 for bracelets and \$5 for earrings. Her cost to make x bracelets and y earrings is \$60. The equation $4x + 5y = 60$ represents this situation. The graph of this equation is a line. What is the slope of the line?

- | | |
|---------|--------|
| a. -4 | c. 0.8 |
| b. -0.8 | d. 12 |

Which linear equation represents the graph?

_____ 6.



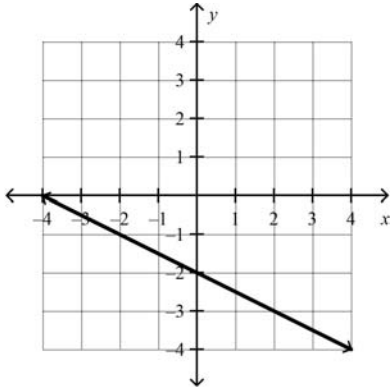
a. $y = \frac{1}{5}x + 3$

c. $y = 5x - 2$

b. $y = 5x + 2$

d. $y = -\frac{1}{5}x - 3$

_____ 7.



a. $y = -2x + 2$

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

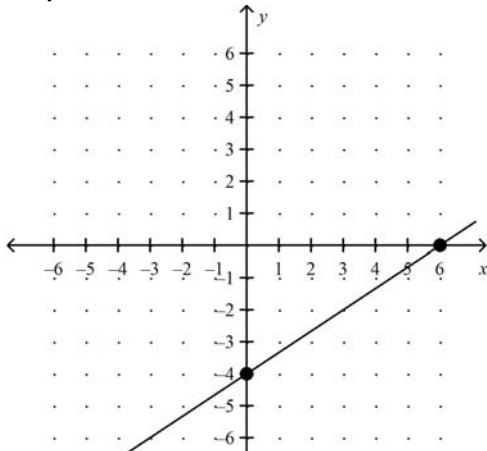
b. $y = 2x + 2$

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

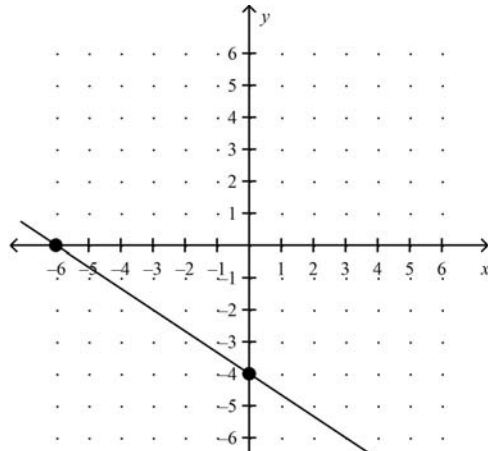
8. Match the equation with its graph.

$$10x - 15y = -60$$

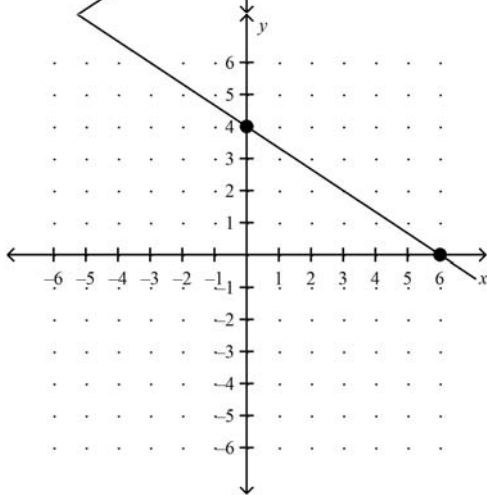
a.



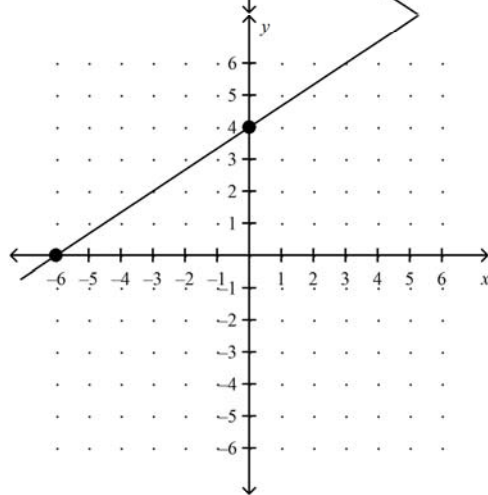
c.



b.



d.



Write the linear equation in slope-intercept form.

9. $-\frac{1}{5}x + y = 12$

a. $y = \frac{1}{5}x - 12$

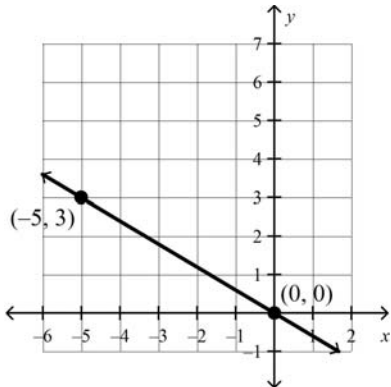
c. $x = 5y - \frac{12}{5}$

b. $y = 5x + 12$

d. $y = \frac{1}{5}x + 12$

Write an equation of the line in slope-intercept form.

_____ 10.



a. $y = -\frac{3}{5}x$

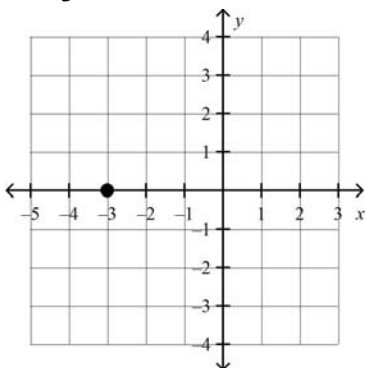
c. $y = -\frac{3}{5}x + 3$

b. $y = -\frac{5}{3}x + 3$

d. $y = -\frac{5}{3}x$

Use point-slope form to write an equation of the line with the given slope that passes through the given point.

_____ 11. $m = \frac{4}{3}$



a. $y + 3 = \frac{4}{3}(x - 0)$

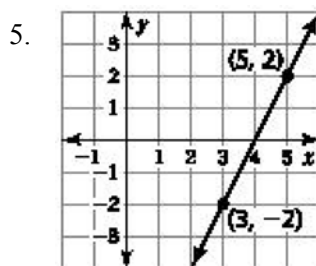
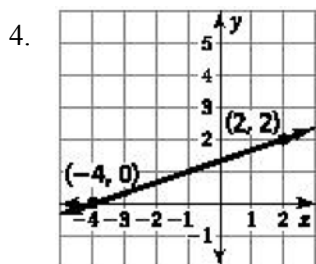
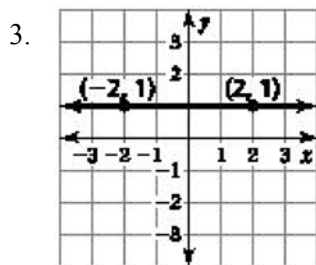
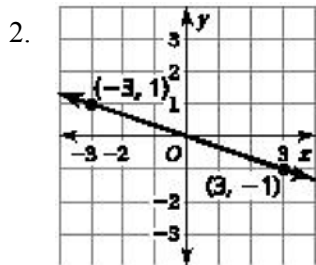
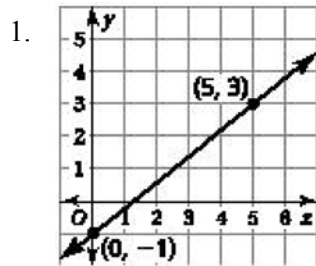
c. $y - 3 = \frac{4}{3}(x + 0)$

b. $y - 0 = \frac{4}{3}(x - 3)$

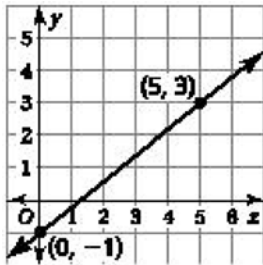
d. $y - 0 = \frac{4}{3}(x + 3)$

Numeric Response

Find the slope of the line.



6. What is the slope of a line that is perpendicular to the line in below?

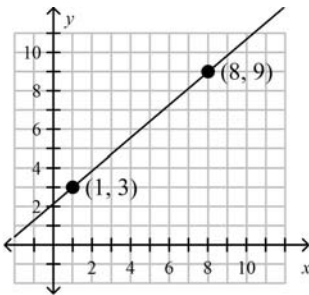


7. The graph of a function is a straight line that goes through the points $(3, 3)$, $(5, 7)$, and $(6, y)$. What is the value of y ?

Short Answer

Find the slope of the line.

1.



Write in slope-intercept form an equation of the line that passes through the given points.

2. $(9, -5)$, $(6, 4)$

Find the slope and the y-intercept of the graph of the linear equation.

3. $y - 2.5 = -5x$

Write in point-slope form an equation of the line that passes through the given point and has the given slope.

4. $(4, -2)$; $m = \frac{1}{4}$

5. How can you find the y-intercept of the graph of $4x + 6y = 20$ without graphing the equation?

**Chapter 4 Review
Answer Section****MULTIPLE CHOICE**

1. B
2. A
3. D
4. B
5. B
6. B
7. D
8. D
9. D
10. A
11. D

NUMERIC RESPONSE

1. $\frac{4}{5}$
2. $-\frac{1}{3}$
3. 0
4. $\frac{1}{3}$
5. 2
6. $-\frac{5}{4}$
7. 9

SHORT ANSWER

1. $\frac{6}{7}$
2. $y = -3x + 22$
3. slope: -5 ; y-intercept: 2.5
4. $y + 2 = \frac{1}{4}(x - 4)$
5. Solve the equation for y and write it in the slope-intercept form $y = mx + b$. The value b is the y-intercept.