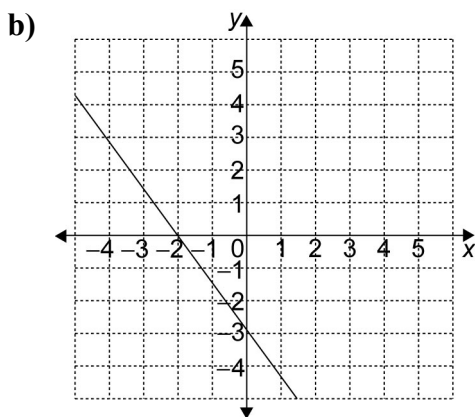
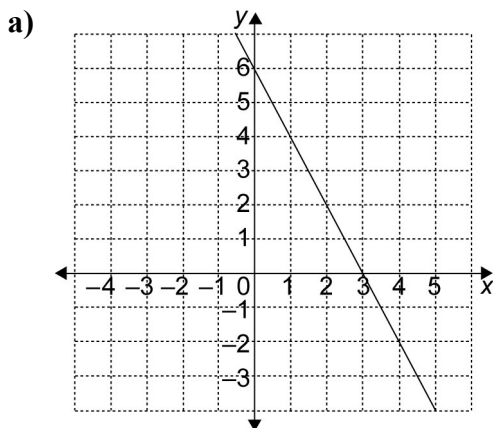


## Chapter 6 Review

### 6.1 The Equation of a Line in Slope

**y-Intercept Form:  $y = mx + b$ ,**  
pages 296–307

1. Find the slope and y-intercept of each line.



2. Identify the slope and y-intercept of each line.

a)  $y = 4x - 5$

b)  $y = -\frac{1}{6}x + 2$

3. Write the equation of a line with each slope and y-intercept. Then, graph each line.

a)  $m = -1, b = 0$

b)  $m = \frac{2}{3}, b = 5$

### 6.2 The Equation of a Line in Standard

**Form:  $Ax + By + C = 0$ ,** pages 308–314

4. Express each equation in the form  $y = mx + b$ .

a)  $6x - y = 4$

b)  $x + 4y = 28$

5. Identify the slope and y-intercept of each equation.

a)  $8x + y = 4$

b)  $-3x + 2y = 8$

### 6.3 Graph a Line Using Intercepts,

pages 315–322

6. Identify the x- and y-intercepts of each line. Then, graph the line

a)  $4x - 2y = 8$

b)  $x + 3y = 6$

c)  $2x - y = 4$

d)  $5x + 3y - 15 = 0$

### 6.4 Parallel and Perpendicular Lines,

pages 326–329

7. Which lines are parallel?

$$2x - 3y + 12 = 0$$

$$3y = 2x + 6$$

$$3x - 2y = 0$$

$$3x + 2y = -4$$

8. Which lines in question 7 are perpendicular?

9. What is the slope of a line that is perpendicular to  $3 - x + 4y = 0$ ?

### 6.5 Find an Equation for a Line Given the Slope and a Point, pages 330–337

10. Find the equation of a line with a slope of  $-3$ , passing through  $(2, -5)$ .

11. Find the equation of a line parallel to  $2x + 5y = 1$ , with the same y-intercept as  $x - 4y = 8$ .

Name: \_\_\_\_\_

Date: \_\_\_\_\_

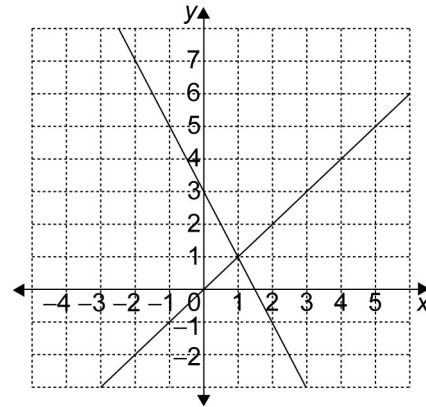
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**6.6 Find an Equation for a Line Given Two Points, pages 338–343**

12. Find the equation for a line passing through  $(3, -4)$  and  $(2, 5)$ .
13. Ingrid is walking in front of a motion sensor. After 1 s, she is 3.9 m from the sensor. After 3 s, she is 1.7 m from the sensor.
- Find the slope for this relationship.
  - Write an equation of the form  $d = mt + b$  that describes Ingrid's motion.
  - After how many seconds will Ingrid's distance from the motion sensor be 0?

**6.7 Linear Systems, pages 344–351**

14. What is the solution to this linear system?



15. Solve the linear system  $x + y = 6$  and  $y - 2x = 0$ .