Solve the equation. Check your solution.
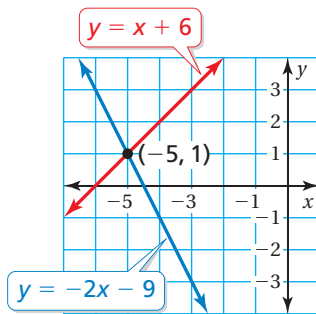
1. $-3x + 6x - 17 = 10$

2. $-7x - 5x + 2 = -22$
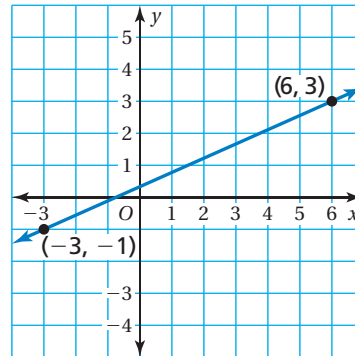
3. $2(k + 4) - 6 = -12$

4. $-3y = 8 - y$

5. Use a table to solve $5x + 2 = 4x$. Check your solution.

6. Use the graph to solve the equation $x + 6 = -2x - 9$. Check your solution.

$y = x + 6$

(−5, 1)

$y = -2x - 9$

7. Find the slope of the line.

(6, 3)

(−3, −1)

Graph the line with the given slope that passes through the given point.

8. slope $= 2$; $(-3, 0)$

9. slope $= -\dfrac{3}{4}$; $(1, 2)$

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

10. $y = 3x - 6$

11. $y = -2x + 3$

Graph the linear function using slope-intercept form.

12. $y = -x + 3$

13. $2x + 6y = 12$

14. **DRIVING** Two cars are driving on the same highway. Car A is 5 miles ahead of Car B and is traveling at a speed of 45 miles per hour. Car B is traveling at a speed of 55 miles per hour. How many minutes will it take for Car B to catch up with Car A?

15. **RAMP** What is the slope of the accessibility ramp?

6 in.

120 in.