

**Practice B**

For use with pages 308–314

**Write the equation in standard form with integer coefficients.**

1.  $2x - y - 8 = 0$

2.  $0.3x - 0.4y = 7.5$

3.  $y = 3x + 2$

4.  $y = 5 - 3x$

5.  $0.6x = 2.1y + 1.8$

6.  $2x = 3y + 5$

7.  $x - 4 = 0$

8.  $3y = 12$

9.  $2x - 9 = \frac{3}{5}y$

10.  $\frac{1}{4}x - 2y = -3$

11.  $y = \frac{1}{2}x + 4$

12.  $y = \frac{2}{3}x - \frac{5}{3}$

**Write the standard form of the equation of the line that passes through the given point and has the given slope.**

13.  $(4, 3), m = 2$

14.  $(1, 5), m = -4$

15.  $(0, 6), m = 3$

16.  $(-2, 4), m = -6$

17.  $(6, -8), m = \frac{1}{3}$

18.  $(-2, 4), m = -\frac{1}{2}$

**Write the standard form of the equation of the line that passes through the given points.**

19.  $(5, 8), (3, 2)$

20.  $(-2, 5), (3, -10)$

21.  $(-7, 3), (1, 2)$

22.  $(-4, -5), (-2, 5)$

23.  $(8, 1), (4, -1)$

24.  $(-6, 6), (3, 3)$

**Write the standard form of the equation of the horizontal and vertical lines that pass through the given point.**

25.  $(3, -4)$

26.  $(5, 1)$

27.  $(-3, -2)$

28.  $(0, -4)$

**Party Food** In Exercises 29–32, use the following information.

You are in charge of buying the hamburger and boned chicken for a party. You have \$60 to spend. The hamburger costs \$2 per pound and boned chicken is \$3 per pound.

29. Write an equation that represents the different amounts of hamburger,  $x$ , and chicken,  $y$ , that you can buy.
30. Rewrite the equation in Exercise 29 in slope-intercept form.
31. Sketch the graph of the linear equation in Exercise 29.
32. Complete the table and label the points from the table on the graph.

Hamburger (lb), $x$	0	6	12	18	30
Chicken (lb), $y$					

**Lawn Seed** In Exercises 33–36, use the following information.

You are buying \$48 worth of lawn seed that consists of two types of seed. One type is a quick-growing rye grass that costs \$4 per pound, and the other type is a higher-quality seed that costs \$6 per pound.

33. Write an equation that represents the different amounts of \$4 seed,  $x$ , and \$6 seed,  $y$ , that you can buy.
34. Rewrite the equation in Exercise 33 in slope-intercept form.
35. Sketch the graph of the linear equation in Exercise 33.
36. Complete the table and label the points from the table on the graph.

\$4 seed (lb), $x$	0	3	6	9	12
\$6 seed (lb), $y$					