

**Practice C**

For use with pages 418–424

Choose a method to solve the linear system. Explain your choice, and then solve the system.

1.  $4x - 3y = -20$

$4x + 2y = 0$

4.  $3y = 7x - 5$

$13 - 3y = 2x$

2.  $5x + 2y = -1$

$-3x + 4y = -15$

5.  $-3x - y = 9$

$y + x = -3$

3.  $-y = -6$

$x + 2y = 8$

6.  $1.2x - 2.5y = -3.5$

$1.4x - 1.5y = -5.5$

Solve the linear system using the method of your choice.

7.  $7x + 9y = 5$

$x + 5y = -3$

10.  $4x - 3 = 3y$

$-5x + 3y = -6$

13.  $4x - 3y = -6$

$-3x + 5y = -12$

16.  $-2x + 4y = 1$

$-8x - 3y = 4$

19.  $7x - 14y = 2$

$-\frac{3}{5}x + y = 0$

8.  $-x = 11$

$2x + 7y = -1$

11.  $-3x + 8y = -16$

$-3x + 6y = -12$

14.  $2y + 3x = 10$

$2x = 5 - 3y$

17.  $1.8x + 4y = -1$

$-2x - 3.5y = 3$

20.  $-0.7x + 0.1y = 0.9$

$x - 0.3y = 1.7$

9.  $-4x + y = -3$

$y = x - 6$

12.  $2x + 3y = 13$

$2x - 3y = -5$

15.  $x = y + 2$

$5x + y = -20$

18.  $y = \frac{1}{2}x - 6$

$x = \frac{2}{3}y$

21.  $\frac{1}{2}x + \frac{3}{4}y = 9$

$-2x + y = -4$

**Cookout** In Exercises 22 and 23, use the following information.

You are buying the meat for a cookout. You need to buy 8 packages of meat. A package of hotdogs costs \$2.19 and a package of hamburgers costs \$5.89. You spend a total of \$28.62.

22. Write a system of equations you could solve to find the number of packages of each type of meat bought.

23. Solve the system.

24. **Southern Cuisine** Your family goes to a Southern-style restaurant for dinner. There are 6 people in your family. Some order the chicken dinner for \$14.89 and some order the steak dinner for \$17.69. If the total bill was \$100.54, how many people ordered each dinner?

25. **Dimensions of a Rectangle** The perimeter of the rectangle is 22 inches. The perimeter of the inscribed triangle is 21.5 inches. Find the dimensions of the rectangle.

26. **Driving to Grandma's House** You live in Pennsylvania and your grandparents live in Ohio. Your family decides to take a trip to visit your grandparents. When you are in Pennsylvania, you drive at an average rate of 55 miles per hour. When you are in Ohio, you drive at an average rate of 65 miles per hour. The entire trip of 295 miles takes 5 hours. How long does it take to reach the Pennsylvania-Ohio border? How long does it take to get from the border to your grandparent's house?

