

Practice B

For use with pages 418–424

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

$$1. \begin{cases} 2x - 3y = 24 \\ 2x + y = 8 \end{cases}$$

$$4. \begin{cases} 2x + y = 5 \\ x - y = 1 \end{cases}$$

$$2. \begin{cases} x - y = 4 \\ x + y = 8 \end{cases}$$

$$5. \begin{cases} 3x - y = 9 \\ x + 2y = 10 \end{cases}$$

$$3. \begin{cases} y - 3x = 7 \\ y + 2x = 2 \end{cases}$$

$$6. \begin{cases} x + y = 50 \\ 3x - 2y = 0 \end{cases}$$

Solve the linear system using the method of your choice.

$$7. \begin{cases} 6x + 9y = 3 \\ x + 4y = -2 \end{cases}$$

$$10. \begin{cases} 4x - 6 = 2y \\ -3x + 2y = -3 \end{cases}$$

$$13. \begin{cases} 4x - 3y = -4 \\ -3x + 5y = -8 \end{cases}$$

$$16. \begin{cases} 2x + 4y = -1 \\ 4x - 3y = -2 \end{cases}$$

$$8. \begin{cases} -x = 10 \\ 2x + 7y = 1 \end{cases}$$

$$11. \begin{cases} -3x + 5y = -10 \\ -3x + 6y = -12 \end{cases}$$

$$14. \begin{cases} 1.8x + 3y = 3 \\ -2x - 2.5y = -5 \end{cases}$$

$$17. \begin{cases} 6x - 3y = -5 \\ x - \frac{2}{3}y = -1 \end{cases}$$

$$9. \begin{cases} -3x + y = -4 \\ y = x - 6 \end{cases}$$

$$12. \begin{cases} 2x + 3y = 8 \\ 2x - 3y = -4 \end{cases}$$

$$15. \begin{cases} x - y = 2 \\ 3x + y = -10 \end{cases}$$

$$18. \begin{cases} y = \frac{1}{2}x - 4 \\ x = -2 + \frac{1}{3}y \end{cases}$$

Cookout In Exercises 19 and 20, 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 \$1.89 and a package of hamburgers costs \$5.19. You spend a total of \$31.62.

19. Let x represent the number of packages of hotdogs bought and let y represent the number of packages of hamburgers bought. Write a system of equations you could solve to find the number of packages of each type of meat bought.

20. Solve the system.

21. **Baseball Glove Sales** A sporting goods store sells right-handed and left-handed baseball gloves. In one month, 12 gloves were sold for a total revenue of \$561. Right-handed gloves cost \$45 and left-handed gloves cost \$52. Find the number of each type of glove sold.

22. **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 \$14.80 and some order the steak dinner for \$17. If the total bill was \$91, how many people ordered each dinner?

23. **Dimensions of a Rectangle** The perimeter of the rectangle is 21 inches. The perimeter of the inscribed triangle is 21 inches. Find the dimensions of the rectangle.

