Name

LESSON

Practice A

For use with the lesson "Rewrite Equations and Formulas"

Determine whether the equation is in function form.

1. 2x + y = 8 **2.** x = 3y - 4 **3.** y = 1 - 8x

Write the equation in function form.

4. y + 10x = 3**5.** y - 13 = 4x**6.** 8x + y - 4 = 0**7.** 4x + 2y = 14**8.** 3y - 9x = 27**9.** 16 + 2y = 18x**10.** 15x - 5y = 20**11.** 2x - 3y = 6**12.** 24 - 4y = 8x**13.** 5x + 2y = 16**14.** -7x - 3y = 18**15.** 4y - 4x + 4 = 0

Solve the literal equation.

16. Solve P = R - C for C.
 17. Solve F = ma for m.

 18. Solve $I = \frac{E}{R}$ for R.
 19. Solve ax - by = c for x.

Solve the formula for the indicated variable.

- **20.** Circumference of a circle: $C = 2\pi r$. Solve for *r*.
- **21.** Volume of a pyramid: $V = \frac{Bh}{3}$. Solve for *B*.
- **22.** Perimeter of a rectangle: $P = 2\ell + 2w$. Solve for *w*.
- **23.** Pencil Holder You are decorating a clean soup can to make a pencil holder. You are going to glue yarn around the top and bottom of the can. The total amount y of yarn (in inches) you need is given by the equation $y = 4\pi r$, where r is the radius of the can.
 - **a.** Solve the equation for *r*.
 - **b.** What is the radius of the can if you need 37.68 inches of yarn? Use 3.14 for π .
- **24.** Investment An advertisement for a bank states that you can earn \$50 interest in one year by investing in a savings account that earns 4% interest. Use the simple interest formula I = Prt, where I is the interest on an investment of P dollars at an interest rate r for t years.
 - **a.** Which variable should you solve for to find the amount of money you need to invest to earn the \$50 in interest?
 - **b.** Solve the simple interest equation for the variable you identified in part (a).
 - c. How much money do you need to invest?



LESSON 2.8