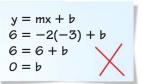
SKILL PRACTICE

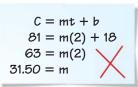
- 1. **VOCABULARY** What is the y-coordinate of a point where a graph crosses the *y*-axis called?
- 2. WRITING If the equation y = mx + b is used to model a quantity y as a function of the quantity x, why is b considered to be the starting value?

WRITING EQUATIONS Write an equation of the line that passes through the given point and has the given slope m.

- **3.** (1, 1); m = 3 **4.** (5, 1); m = 2 **5.** (-4, 7); m = -5 **6.** (5, -5); m = -2 **7.** $(8, -4); m = -\frac{3}{4}$ **8.** $(-3, -11); m = \frac{1}{2}$
- **9. ERROR ANALYSIS** *Describe* and correct the error in finding the *y*-intercept of the line that passes through the point (6, -3) and has a slope of -2.



10. ERROR ANALYSIS An Internet service provider charges \$18 per month plus an initial set-up fee. One customer paid a total of \$81 after 2 months of service. Describe and correct the error in finding the set-up fee.



EXAMPLE 2

EXAMPLE 4

on p. 294

for Ex. 10

EXAMPLE 1

on p. 292

for Exs. 3-9

on p. 293 for Exs. 11-22

USING TWO POINTS Write an equation of the line that passes through the given points.

15.
$$\left(\frac{9}{2}, 1\right), \left(-\frac{7}{2}, 7\right)$$

15.
$$\left(\frac{9}{2}, 1\right), \left(-\frac{7}{2}, 7\right)$$
 16. $\left(-5, \frac{3}{4}\right), \left(-2, -\frac{3}{4}\right)$

USING A GRAPH Write an equation of the line shown.

