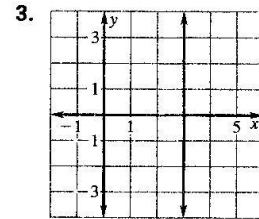
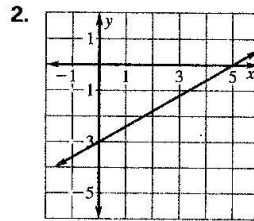
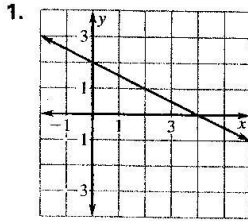


**Practice A**

For use with pages 250–255

Identify the x-intercept of the line whose graph is shown.



In Exercises 4–9, match the one-variable equation with its related function.

A.  $3x = 6$

B.  $3x - 4 = 6$

C.  $5x + 2 = 2x$

D.  $3x = 5x - 6$

E.  $2x + 2 = 6$

F.  $-x = x + 8$

4.  $y = 3x - 10$

5.  $y = 2x - 6$

6.  $y = -3x + 6$

7.  $y = 2x - 4$

8.  $y = 2x + 8$

9.  $y = 3x + 2$

Lesson 4.7

Write the equation in the form  $ax + b = 0$ . Then write the related function  $y = ax + b$ .

10.  $5x + 2 = 7$

11.  $3 - 3x = 9$

12.  $7 + 4x = 15$

13.  $8x - 9 = 4x$

14.  $-6x + 1 = 5x - 4$

15.  $7 - 3x = 10 + 5x$

Solve the equation algebraically. Check your solution graphically.

16.  $5x + 3 = -2$

17.  $-2x + 13 = 7$

18.  $-x = -4$

19.  $3x - 5 = 13$

20.  $\frac{1}{3}x + 4 = 9$

21.  $-\frac{1}{2}x - 8 = 12$

22.  $5x - 2 = -6$

23.  $-3x + 5 = -4x + 8$

24.  $4x - \frac{1}{2} = 7\frac{1}{2}$

Solve the equation graphically. Check your solution algebraically.

25.  $-2x = 6$

26.  $3x + 5 = 4$

27.  $4 + 5x = 9$

28.  $7 - 5x = -2$

29.  $5x + 6 = 2x + 2$

30.  $3x + 4 = -2 - 5x$

31. **High School Alumni** The number of students  $A$  who graduated from Monroe High School between 1990 and 2000 can be modeled by the equation  $A = 250t + 2000$ , where  $t$  is the number of years since 1990. In what year were there 3250 alumni? Solve algebraically and graphically.

32. **Cassette Sales** The number of cassette tapes  $y$  sold at a local music store between 1985 and 2000 can be modeled by the equation  $y = -350t + 6000$ , where  $t$  is the number of years since 1985. In what year did the store sell 1100 cassettes? Solve algebraically and graphically.