

LESSON  
**4.6**

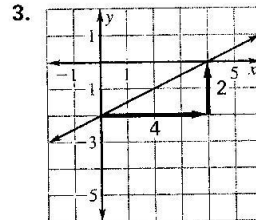
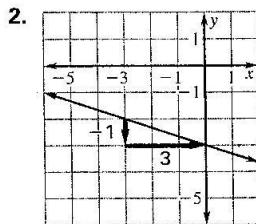
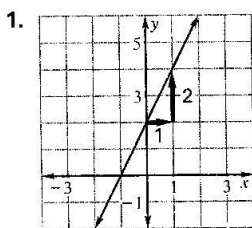
NAME \_\_\_\_\_ DATE \_\_\_\_\_

**Practice A**

For use with pages 241–247

Lesson 4.6

Find the slope and  $y$ -intercept of the line whose graph is shown.



Find the slope and  $y$ -intercept of the graph of the equation.

4.  $y = 7x + 3$

5.  $y = 5x - 1$

6.  $y = 7$

7.  $y = -2x$

8.  $y = \frac{1}{2}x + \frac{5}{2}$

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

Graph the equation. If necessary, write the equation in slope-intercept form first.

10.  $y = x + 1$

11.  $y = x - 6$

12.  $y = 3x$

13.  $y = -2x$

14.  $y = 2x - 3$

15.  $y = -5x - 2$

16.  $y = 4$

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

18.  $y = -\frac{2}{3}x + 2$

19.  $y = \frac{3}{2}x + \frac{1}{2}$

20.  $-3x + y = 8$

21.  $x + y = 5$

Decide whether the graphs of the two equations are parallel lines.

22.  $y = x + 3, y = x + 6$

23.  $y = 2x - 3, y = -2x + 3$

24.  $y = 4x - 1, y = 1 - 4x$

25.  $3y = x - 12, 6y = 2x + 12$

**Jogging** Use the following information.

Howard decides to start jogging every day at the track. The first week he jogs 4 laps. He adds 1 lap each week for 8 weeks. Let  $l$  represent the number of laps Howard runs and let  $t$  represent the time in weeks since he began jogging.

26. Make a table of values to record the number of laps Howard jogs from week 0, 1, 2, 3, ..., 7.

27. Plot the ordered pairs. Draw a line through the points.

28. Find the slope. What does it represent?

**Telephone Calls** Use the following information.

The cost of a long-distance telephone call is \$.50 for the first minute and \$.10 for each additional minute. Let  $c$  represent the total cost of a call that lasts  $t$  minutes.

29. Make a table of values to record the costs of calls that last 1, 2, 3, 4, 5, and 6 minutes.

30. Plot the ordered pairs. Draw a line through the points.

31. Find the slope. What does it represent?