

## Practice A

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

1.  $y = 7x + 1$

2.  $y = -3x - 4$

3.  $y = -4$

4.  $y - 2x = 3.2$

5.  $y = \frac{1}{4}x + \frac{3}{4}$

6.  $2y = 6x + 16$

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

7.  $y = x + 5$

8.  $y = 2x - 4$

9.  $y = 3 - 2x$

10.  $y = \frac{2}{3}x$

11.  $y = \frac{1}{2}x - 4$

12.  $y = -x - 3$

13.  $y = -\frac{4}{5}x - \frac{1}{2}$

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

15.  $5x - 10y = -20$

16.  $2y = 8$

17.  $x + 10y - 3 = 7$

18.  $2x + 4y = 6x - 6$

**Jogging** Use the following information.

Howard decides to start jogging every day at the track. The first week he jogs 6 laps. He adds 2 laps 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.

19. Plot points for the number of laps Howard jogs at one week intervals. Draw a line through the points.
20. Find the slope. What does it represent?

**Telephone Calls** Use the following information.

The cost of a long-distance telephone call is \$.85 for the first minute and \$.05 for each additional minute. Let  $c$  represent the total cost of a call that lasts  $t$  minutes.

21. Plot points for the cost of calls in one minute intervals. Draw a line through the points.
22. Find the slope. What does it represent?

**Weight Loss** Use the following information.

The graph at the right represents the weight loss of a wrestler as he prepares for the state meet.

23. Find the slope of the line. What does it represent?
24. Find the  $w$ -intercept. What does it represent?

