Pg. 67 #1-15 odd, 19-35 odd (write in y=mx+b form and **skip #23**), 66,67

Graph each equation. Check your work.

1.
$$v = 2x$$

2.
$$y = -3x - 1$$

3.
$$y = 3x - 2$$

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

5.
$$5x - 2y = -6$$

5.
$$5x - 2y = -4$$
 6. $-2x + 5y = -10$ **7.** $y - 3 = -2x$ **8.** $y + 4 = -3x$

8.
$$y + 4 = -3x$$

- **9. Cost Analysis** The equation y 0.23x = 0 relates the cost of operating a car to the number of miles driven, where x is the number of miles driven and y is the cost.
 - Graph the equation and determine the domain and range.
 - **b.** Explain what the x- and y-intercepts represent.
 - c. Explain what 0.23 represents.
- 10. Fund-Raising The school glee club needs a total of \$4500 for a trip to Omaha, Nebraska. To make money, members are selling baseball caps for \$4.50 and sweatshirts for \$12.50.
 - **a.** Graph the equation 4.5x + 12.5y = 4500, where x is the number of baseball caps and y is the number of sweatshirts sold.
 - b. Explain the meaning of the x- and y-intercepts in terms of the fund-raising.

Find the slope of the line through each pair of points.

12.
$$(-3, 9)$$
 and $(0, 3)$

17.
$$\left(\frac{2}{3}, \frac{4}{7}\right)$$
 and $\left(\frac{2}{3}, \frac{11}{7}\right)$ **18.** $(-3, 5)$ and $(4, 5)$

19.
$$(-5, -7)$$
 and $(0, 10)$

Write in standard form the equation of each line.

20. slope =
$$3$$
; (1, 5

21. slope =
$$\frac{5}{6}$$
; (22, 12)

20. slope = 3; (1,5) **21.** slope =
$$\frac{5}{6}$$
; (22, 12) **22.** slope = $-\frac{3}{5}$; (-4,0)

23. slope = 0;
$$(4, -2)$$
 24. slope = -1; $(-3, 5)$ **25.** slope = 5; $(0, 2)$

24. slope =
$$-1$$
: (-3.5)

25. slope =
$$5:(0.2)$$

Write in point-slope form the equation of the line through each pair of points.

26.
$$(-10,3)$$
 and $(-2,-5)$ **27.** $(1,0)$ and $(5,5)$

28.
$$(-4, 10)$$
 and $(-6, 15)$

29.
$$(0, -1)$$
 and $(3, -5)$

Find the slope of each line.

32.
$$5x + y = 4$$

33.
$$-3x + 2y = 7$$

33.
$$-3x + 2y = 7$$
 34. $-\frac{1}{2}x - y = \frac{3}{4}$

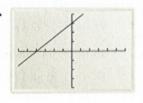
$$35. Ax + By = C$$

36.
$$Ax - By = C$$

37.
$$y = 7$$

Write an equation for each line. Each interval is 1 unit.

66.





68.

