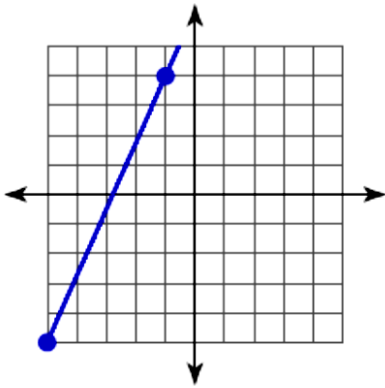


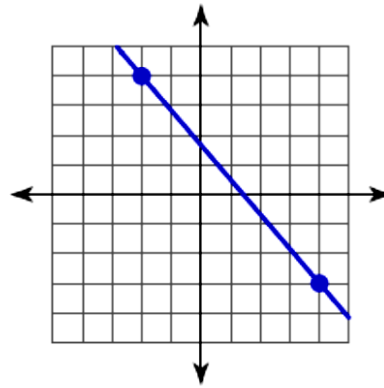
Show all work for full credit. You must complete the odd problems for homework. The even exercises are for extra credit. All are due tomorrow.

Find the slope of each line.

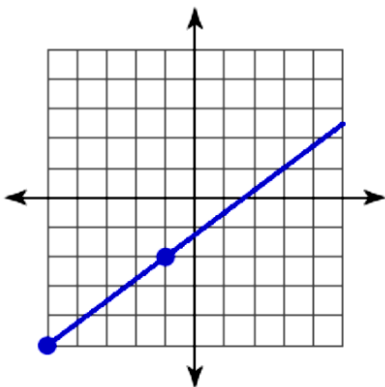
1)



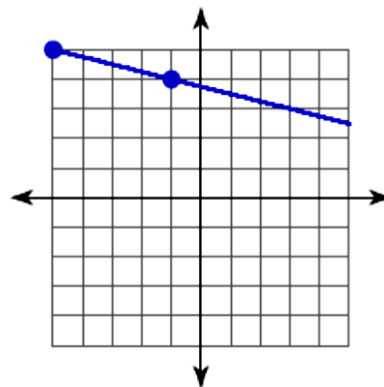
2)



3)



4)



5)  $y = -\frac{5}{4}x + 3$

6)  $y = -\frac{1}{2}x + 2$

7)  $y = -\frac{3}{4}x$

8)  $y = -\frac{5}{3}x + 5$

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

9)  $(17, -6), (-11, 7)$

10)  $(3, 4), (-4, -5)$

11)  $(-20, 14), (17, 15)$

12)  $(11, -18), (-1, -7)$

Find the slope of a line parallel to each given line.

13)  $y = \frac{2}{3}x - 2$

14)  $y = \frac{9}{5}x - 5$

Find the slope of a line perpendicular to each given line.

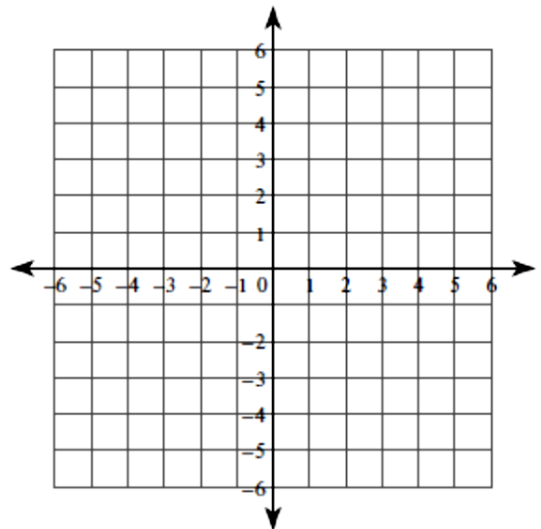
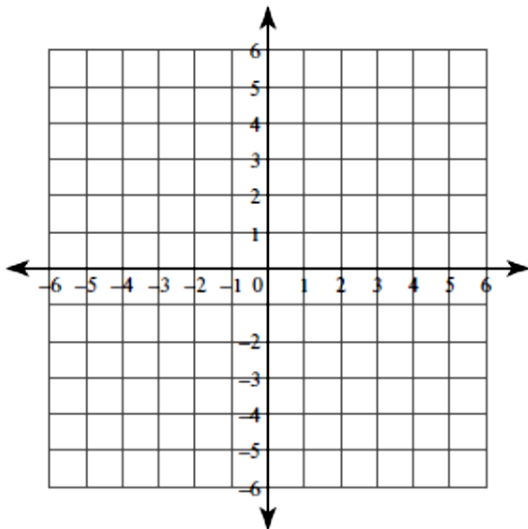
15)  $y = -\frac{1}{2}x - 2$

16)  $y = -x - 1$

Sketch the graph of each line.

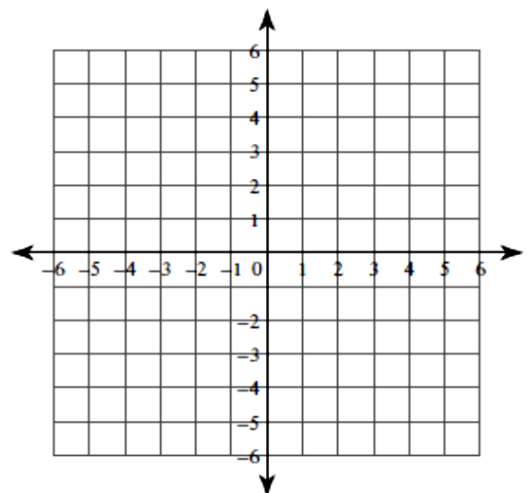
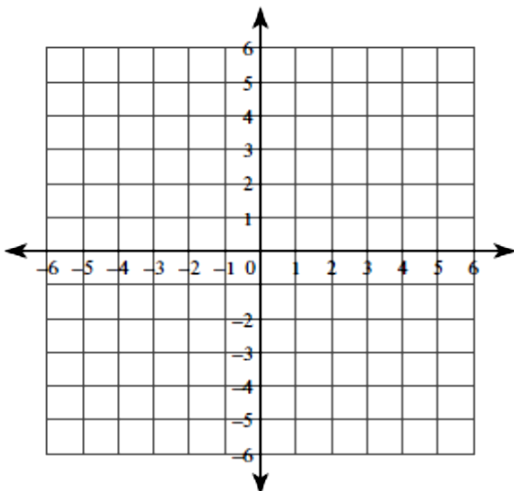
17)  $y = \frac{4}{5}x + 2$

18)  $y = \frac{5}{4}x - 2$

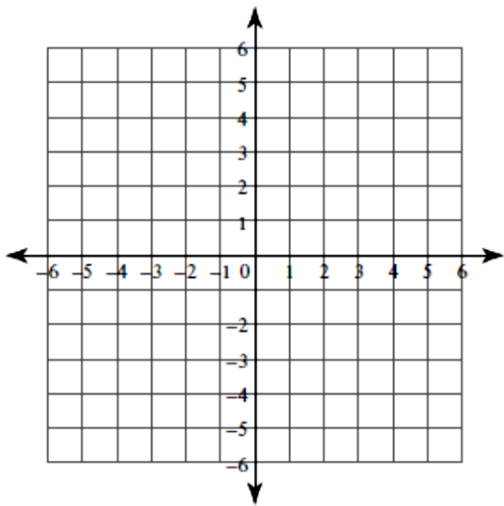


21)  $y = \frac{1}{4}x - 4$

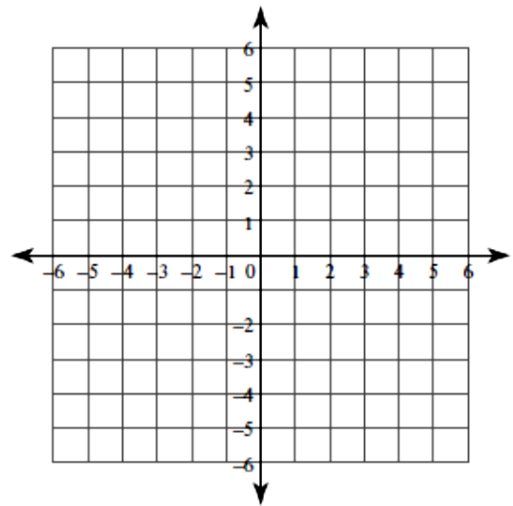
22)  $y = -x + 4$



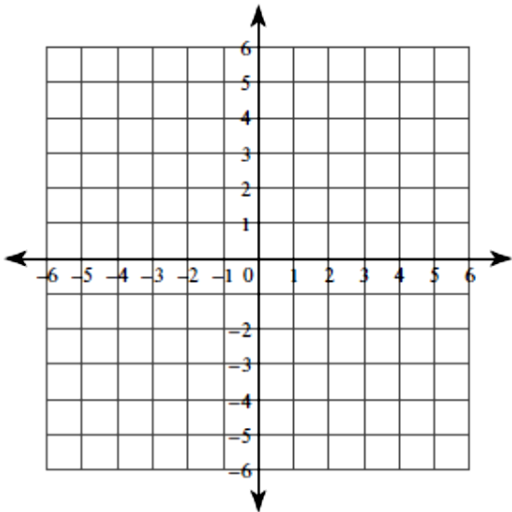
23)  $x$ -intercept =  $-2$ ,  $y$ -intercept =  $-2$



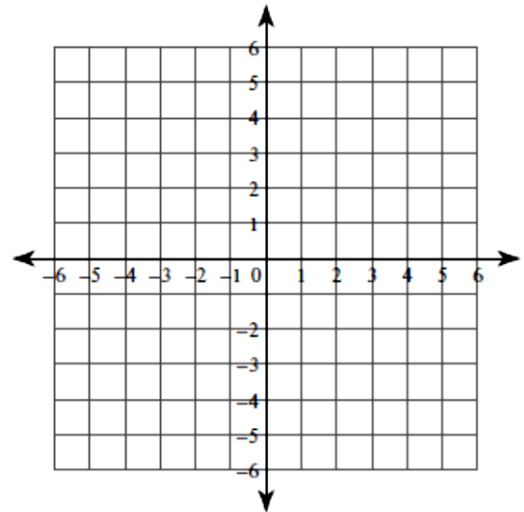
24)  $x$ -intercept =  $5$ ,  $y$ -intercept =  $4$



25)  $3x + 4y = -12$

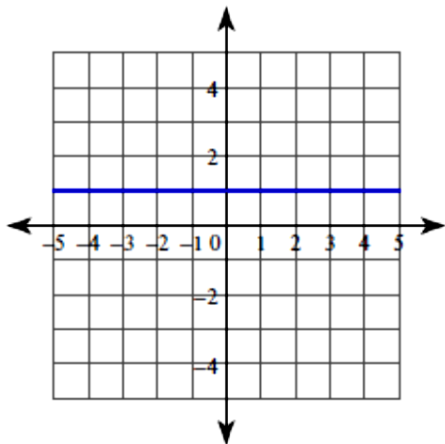


26)  $5x + 3y = -6$

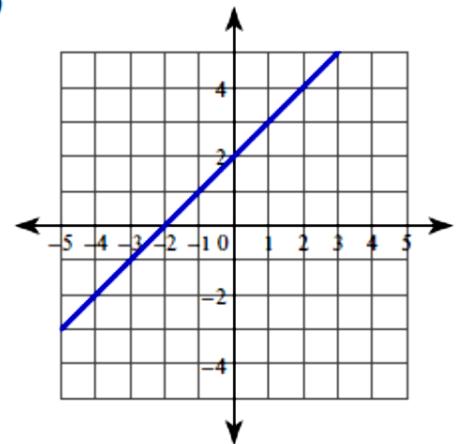


**Write the slope-intercept form of the equation of each line.**

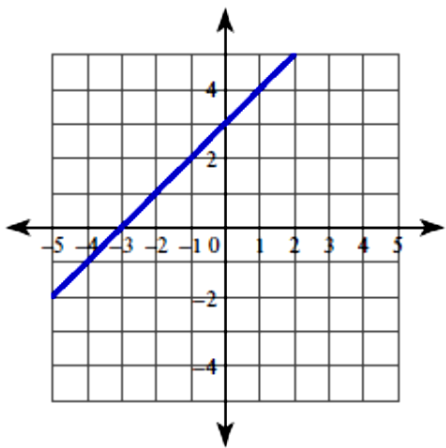
29)



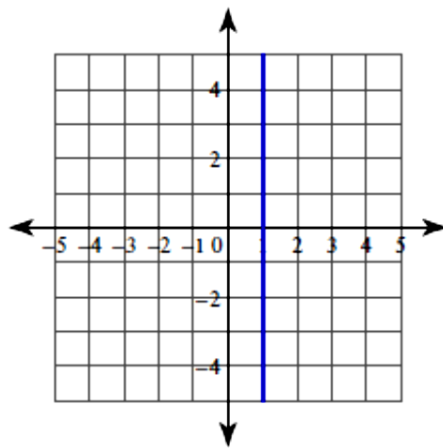
30)



31)



32)



**Write the slope-intercept form of the equation of each line.**

33)  $x - 2y = 7$

34)  $7x + 2y = -28$

35)  $2x + 3y = -6$

36)  $2x + 3y = -7$

**Write the slope-intercept form of the equation of each line given the slope and y-intercept.**

39) Slope =  $-10$ , y-intercept =  $-5$

40) Slope =  $-\frac{9}{5}$ , y-intercept =  $-4$

41) Slope =  $-\frac{5}{4}$ , y-intercept =  $5$

42) Slope =  $7$ , y-intercept =  $5$

**Write the standard form of the equation of each line given the slope and y-intercept.**

43) Slope =  $-4$ , y-intercept =  $3$

44) Slope =  $\frac{1}{2}$ , y-intercept =  $-1$

45) Slope =  $-\frac{9}{2}$ , y-intercept =  $4$

46) Slope =  $\frac{1}{5}$ , y-intercept =  $-4$

**Write the slope-intercept form of the equation of the line through the given point with the given slope.**

49) through:  $(-1, 1)$ , slope = 1

50) through:  $(2, 5)$ , slope = 2

51) through:  $(1, -1)$ , slope =  $-\frac{3}{5}$

52) through:  $(5, 1)$ , slope =  $-1$

**Write the slope-intercept form of the equation of the line through the given points.**

55) through:  $(5, 2)$  and  $(0, -5)$

56) through:  $(5, 5)$  and  $(-1, -1)$

57) through:  $(2, 1)$  and  $(4, 3)$

58) through:  $(0, 2)$  and  $(3, 5)$

**Write the slope-intercept form of the equation of the line described.**

61) through:  $(-5, -3)$ , parallel to  $y = \frac{2}{5}x - 2$

62) through:  $(-1, 2)$ , parallel to  $y = -\frac{3}{2}x - 2$

63) through:  $(-3, -5)$ , parallel to  $y = 2x + 2$

64) through:  $(5, -1)$ , parallel to  $y = -x - 5$

67) through:  $(-2, -4)$ , perp. to  $y = -\frac{2}{9}x + 4$

68) through:  $(3, -4)$ , perp. to  $y = -7x$

69) through:  $(-2, -4)$ , perp. to  $y = -\frac{1}{2}x$

70) through:  $(4, 5)$ , perp. to  $y = -x + 2$

**Write the slope-intercept form of the equation of each line.**

86)  $x - 6y = -30$

87)  $2x - y = 2$

**Find the slope of each line.**

88)  $4x + 3y = -9$

89)  $3x + y = -1$

90)  $2x + 3y = 15$

91)  $2x + y = 0$