

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

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

1)  $(-14, 17), (8, 4)$

2)  $(3, 2), (5, 0)$

3)  $(-19, 10), (-2, 9)$

4)  $(-15, 8), (19, -18)$

**Find the slope of each line.**

5)  $y = -\frac{1}{3}x$

6)  $y = -2x - 4$

7)  $y = x - 4$

8)  $y = -3x + 4$

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

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

10) Slope =  $0$ , y-intercept =  $-1$

11) Slope =  $-1$ , y-intercept =  $-1$

12) Slope =  $6$ , y-intercept =  $-3$

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

13) through:  $(0, -4)$  and  $(1, -3)$

14) through:  $(-1, -2)$  and  $(-2, -4)$

15) through:  $(-4, 0)$  and  $(0, 5)$

16) through:  $(-4, -1)$  and  $(0, -5)$

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

17) through:  $(0, -4)$  and  $(3, -2)$

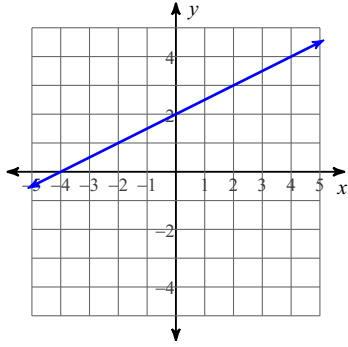
18) through:  $(-2, -1)$  and  $(2, -2)$

19) through:  $(0, -2)$  and  $(-1, 3)$

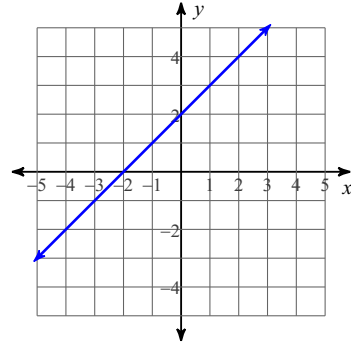
20) through:  $(1, -2)$  and  $(-1, 3)$

Write the slope-intercept form and point slope form of the linear equation for each line.

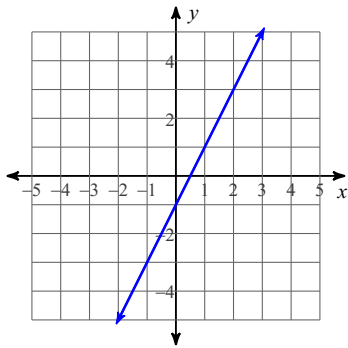
21)



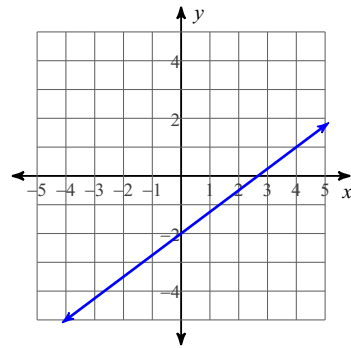
22)



23)



24)



## Answers to Assignment (ID: 1)

$$1) -\frac{13}{22}$$

$$5) -\frac{1}{3}$$

$$9) y = \frac{1}{2}x - 1$$

$$13) y + 4 = x$$

$$17) y = \frac{2}{3}x - 4$$

$$21) y = \frac{1}{2}x + 2$$

$$2) -1$$

$$6) -2$$

$$10) y = -1$$

$$14) y + 2 = 2(x + 1)$$

$$18) y = -\frac{1}{4}x - \frac{3}{2}$$

$$22) y = x + 2$$

$$3) -\frac{1}{17}$$

$$7) 1$$

$$11) y = -x - 1$$

$$15) y = \frac{5}{4}(x + 4)$$

$$19) y = -5x - 2$$

$$23) y = 2x - 1$$

$$4) -\frac{13}{17}$$

$$8) -3$$

$$12) y = 6x - 3$$

$$16) y + 1 = -(x + 4)$$

$$20) y = -\frac{5}{2}x + \frac{1}{2}$$

$$24) y = \frac{3}{4}x - 2$$