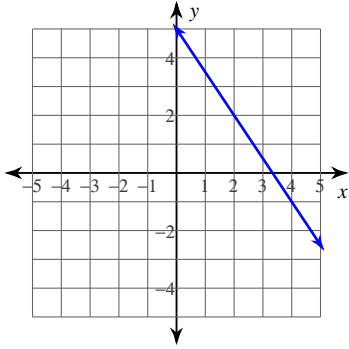


## Assignment

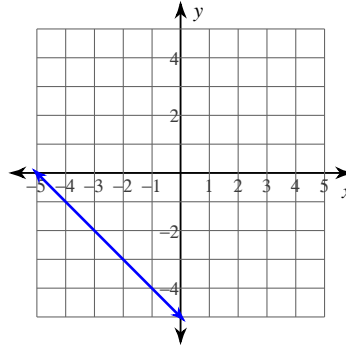
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**Write the slope-intercept form of the equation of each line.**

1)

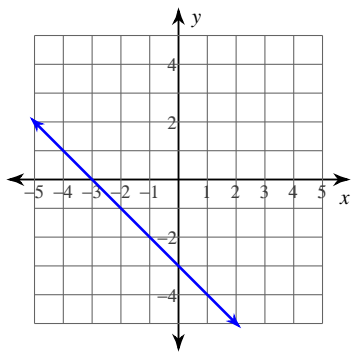


2)

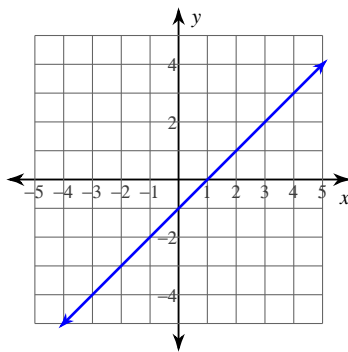


Write the standard form of the equation of each line.

3)



4)



5)  $y - 1 = -\frac{6}{5}(x + 5)$

6)  $y + 4 = -\frac{7}{4}(x - 4)$

$$7) y + 3 = \frac{1}{3}(x - 3)$$

$$8) y - 2 = -\frac{1}{2}(x - 4)$$

$$9) y + 2 = -\frac{7}{2}(x - 2)$$

$$10) y = -(x + 5)$$

$$11) y + 5 = -(x - 1)$$

$$12) y + 4 = \frac{7}{3}(x + 3)$$

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

$$13) \text{ through: } (-3, 1), \text{ slope} = -1$$

$$14) \text{ through: } (4, -4), \text{ slope} = -\frac{1}{2}$$

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

16) through:  $(2, 3)$ , slope =  $2$

**Write the standard form of the equation of the line through the given points.**

17) through:  $(-1, 2)$  and  $(4, 0)$

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

19) through:  $(-5, 3)$  and  $(5, -3)$

20) through:  $(2, 1)$  and  $(4, 4)$

21) through:  $(1, 5)$  and  $(4, -4)$

22) through:  $(5, 4)$  and  $(4, -1)$

23) through:  $(4, 2)$  and  $(-2, 4)$

24) through:  $(5, 5)$  and  $(2, 3)$

## Answers to Assignment (ID: 1)

1)  $y = -\frac{3}{2}x + 5$

2)  $y = -x - 5$

3)  $x + y = -3$

4)  $x - y = 1$

5)  $6x + 5y = -25$

6)  $7x + 4y = 12$

7)  $x - 3y = 12$

8)  $x + 2y = 8$

9)  $7x + 2y = 10$

10)  $x + y = -5$

11)  $x + y = -4$

12)  $7x - 3y = -9$

13)  $x + y = -2$

14)  $x + 2y = -4$

15)  $5x + y = 0$

16)  $2x - y = 1$

17)  $2x + 5y = 8$

18)  $5x + 9y = -20$

19)  $3x + 5y = 0$

20)  $3x - 2y = 4$

21)  $3x + y = 8$

22)  $5x - y = 21$

23)  $x + 3y = 10$

24)  $2x - 3y = -5$