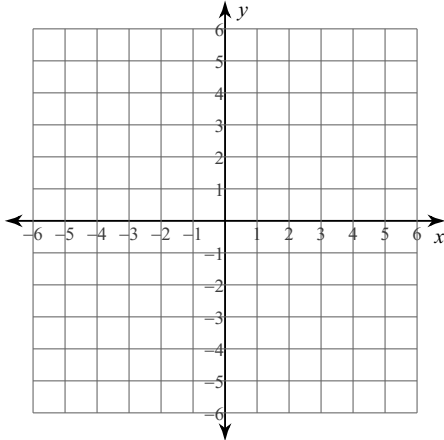


## HW 3.8

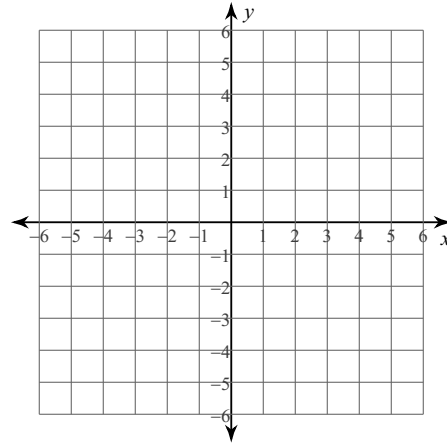
Date \_\_\_\_\_ Period \_\_\_\_\_

**Sketch the graph of each line.**

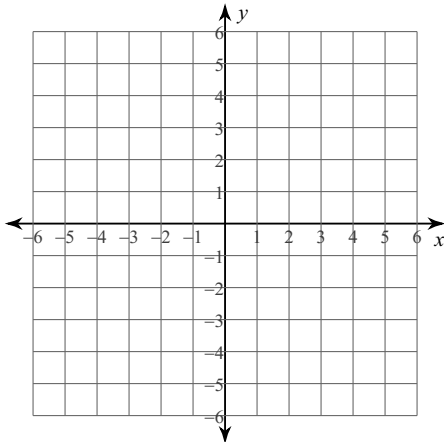
1)  $y = \frac{9}{4}x - 5$



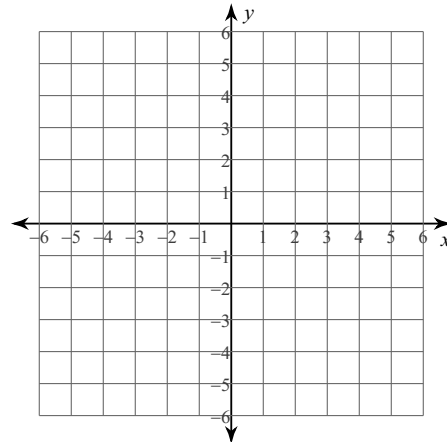
2)  $x = -1$



3)  $x = -5y$



4)  $7x = 10 - 5y$

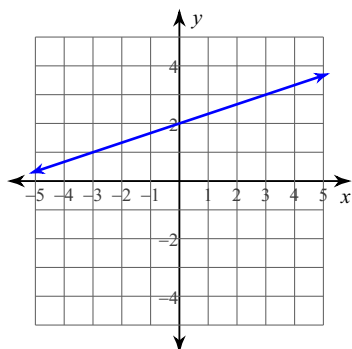
**Write the slope-intercept form of the equation of the line:**

5) through:  $(-1, 3)$ , slope = 1

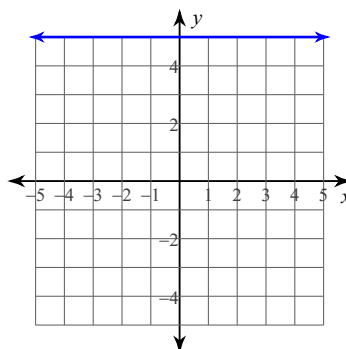
6) through:  $(0, -3)$  and  $(3, 2)$

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

7)



8)



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

9) through:  $(-2, 2)$ , parallel to  $y = -\frac{1}{2}x + 5$

10) through:  $(3, 4)$ , perp. to  $y = -\frac{1}{2}x + 2$

**Answer each of the following questions:**

11)  $f(x) = -4x + 5$

a. what is  $f(2)$ ?

b. When does  $f(x) = -11$ ?

12)  $g(x) = \frac{5}{2}x - 1$

a. what is  $g(-8)$ ?

b. When does  $g(x) = 0$ ?

13) Consider  $y = 2x - 4$ .

What are the coordinates of the y-intercept?

What are the coordinates of the x-intercept ?

14) Consider  $y = -12x + 36$

What are the coordinates of the y-intercept?

What are the coordinates of the x-intercept ?

15) If  $a(x) = 2x - 10$  Which of the following points are on the line?

- A)  $(-2, 4)$       B)  $(10, 0)$   
C)  $(0, 10)$       D)  $(4, -2)$

16) If  $t(x) = \frac{3}{4}x$  Which of the following points are on the line?

- A)  $(-4, 3)$       B)  $(-4, -3)$   
C)  $(3, 4)$       D)  $(4, -3)$