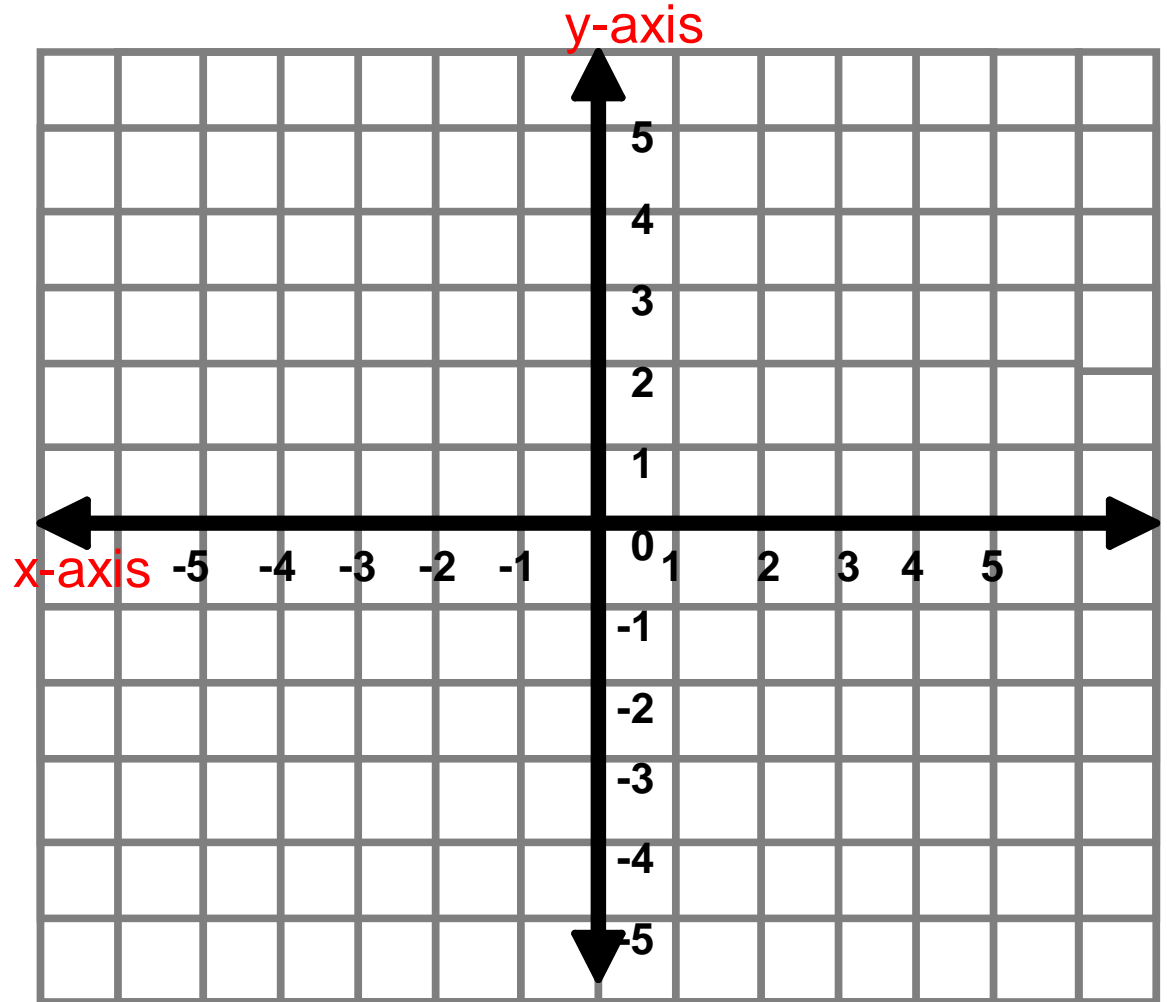
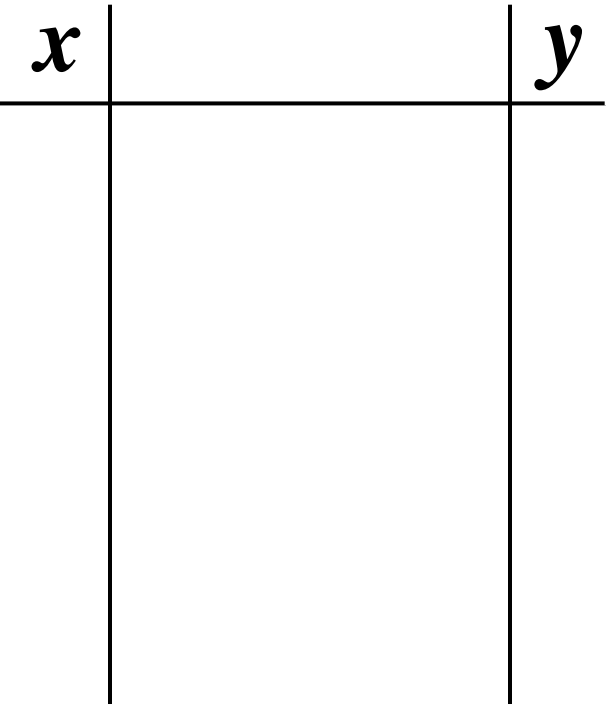


# **Chapters 4 & 6 Review**

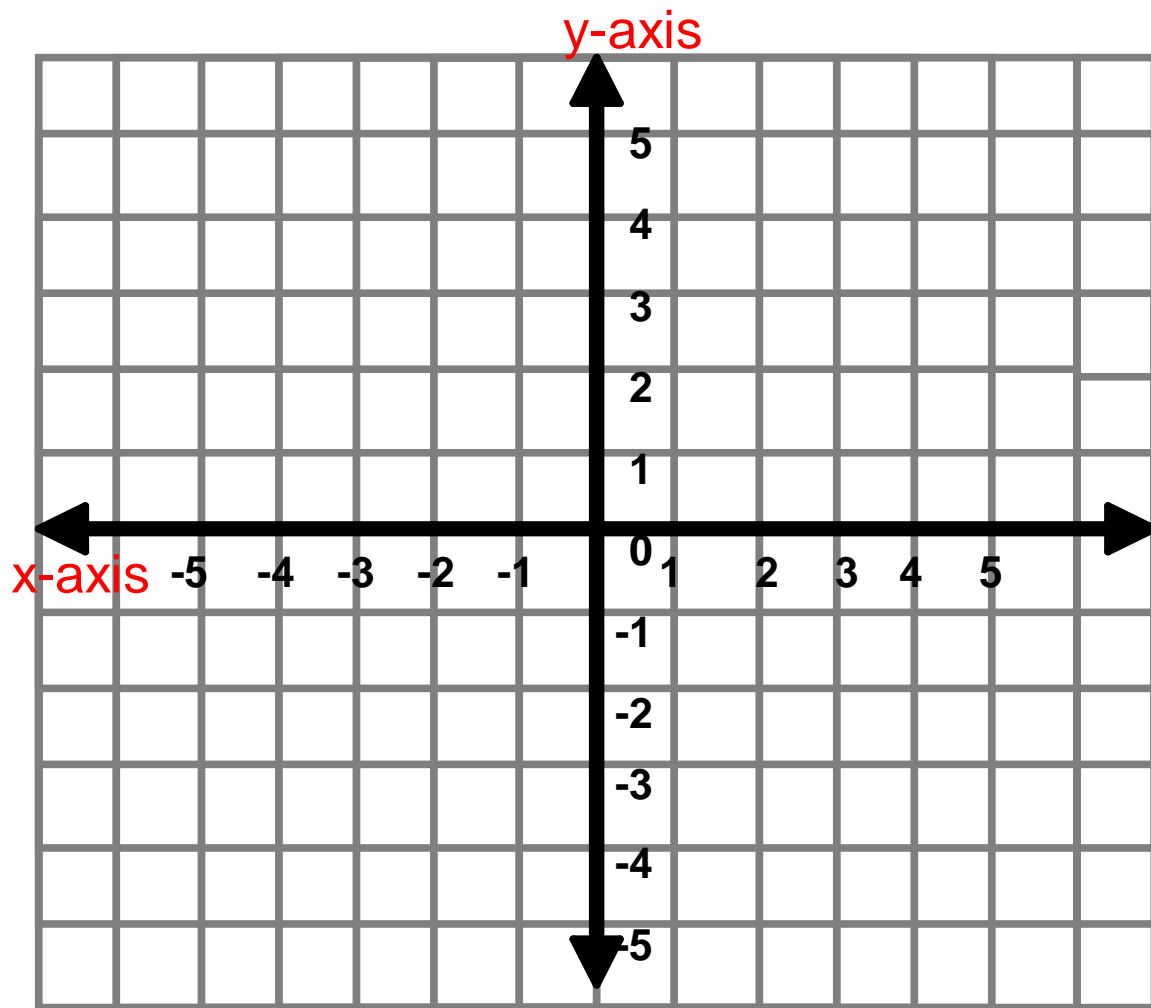
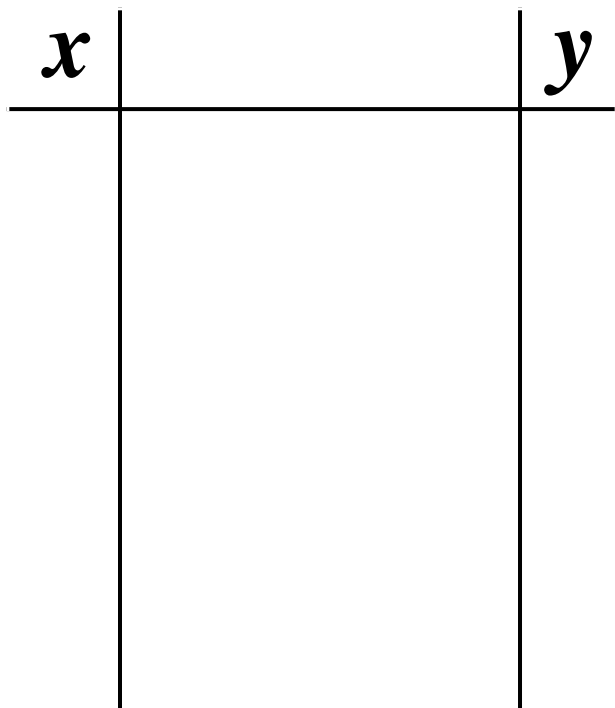
# Graphing Using a Chart

1) Graph  $y = 2x - 3$



2) Graph the linear equation.

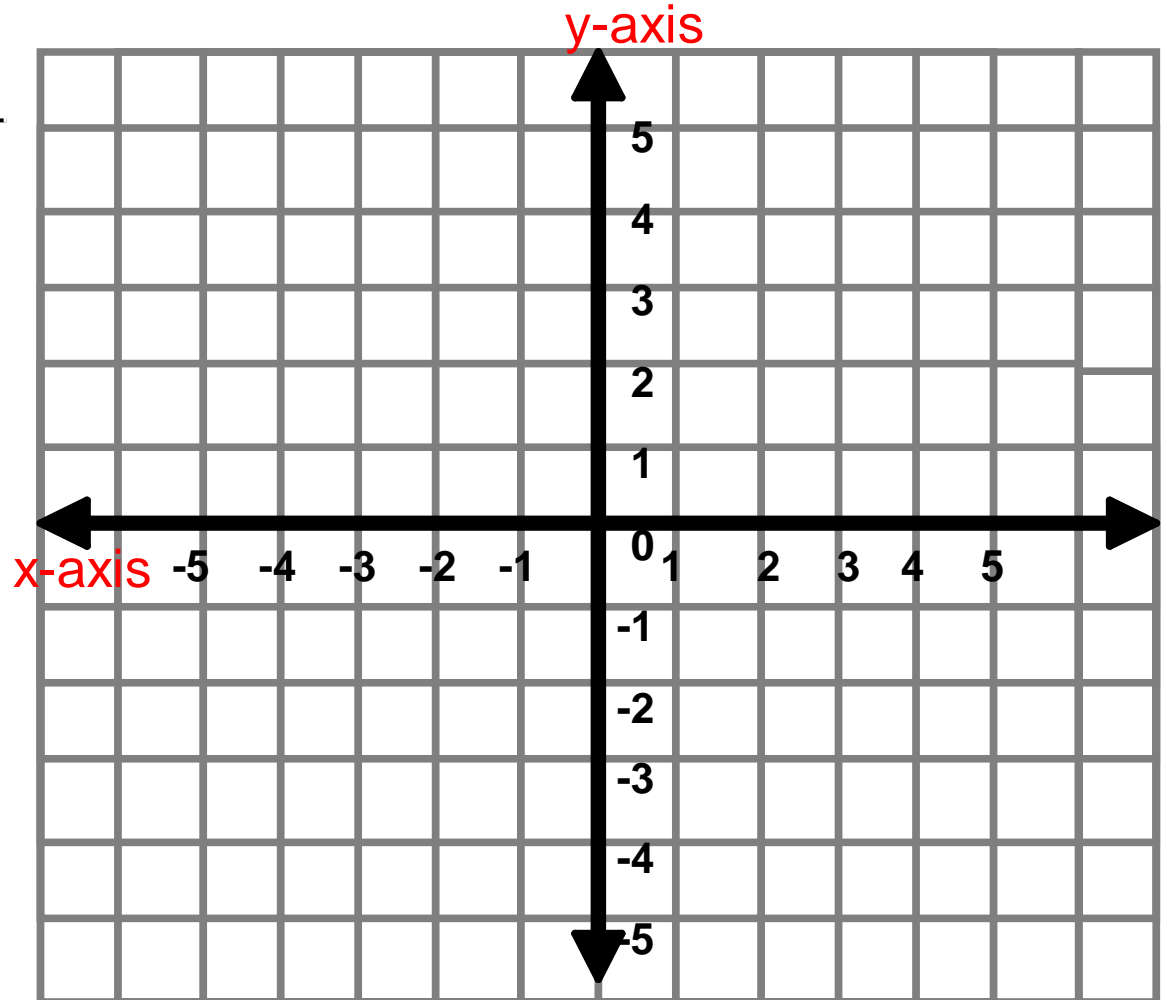
$$-3x + y = -1$$



# Using a T-Chart

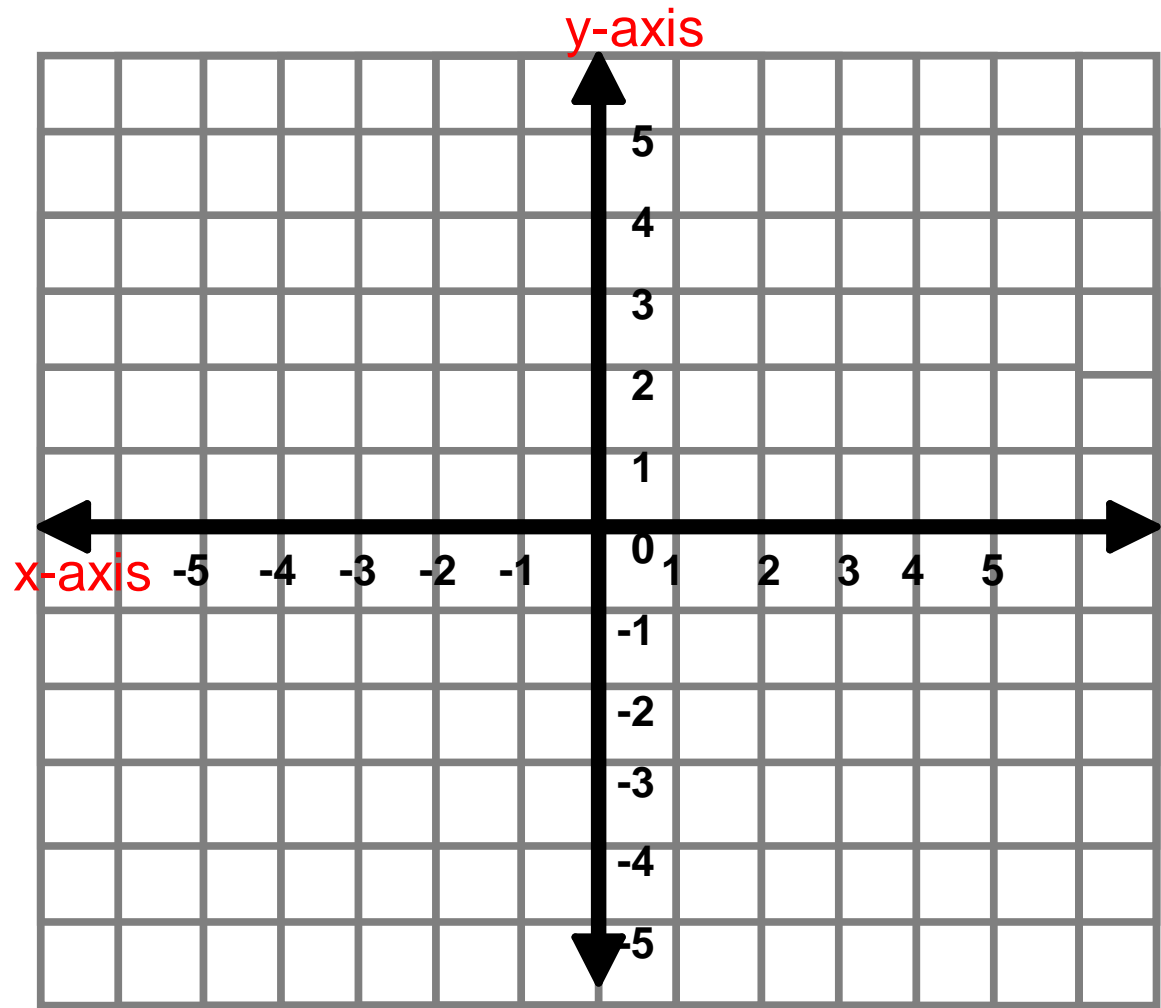
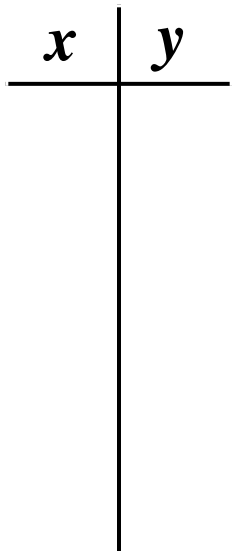
3) Graph  $y = \frac{1}{2}x + 1$  using T-chart.

$x$	$y$



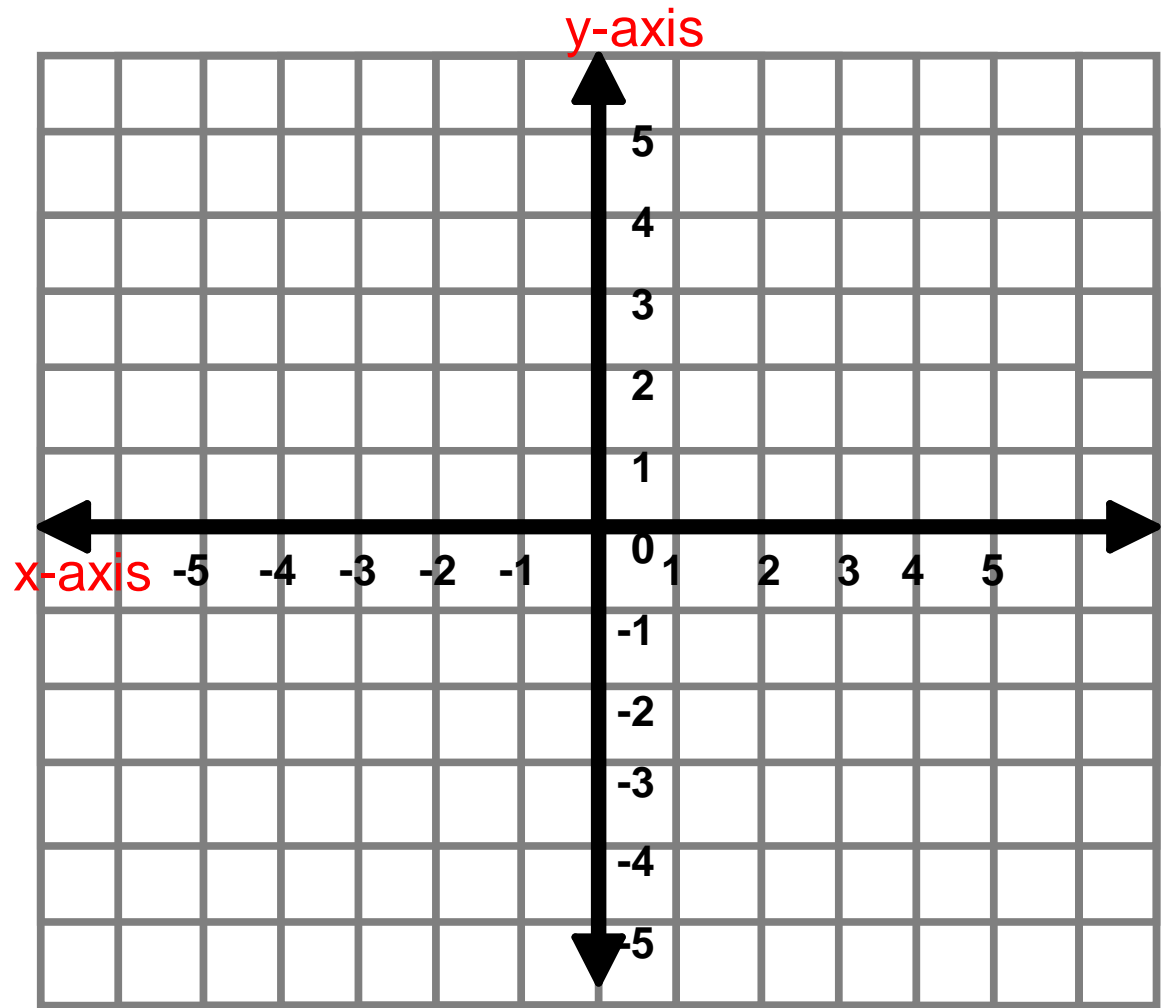
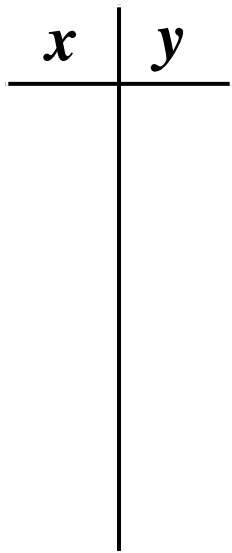
# Graphing Horizontal and Vertical Lines

4)  $y = 4$



# Graphing Horizontal and Vertical Lines

5)  $x = 3$



# **SLOPE FORMULA**

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

Find the slope between the two points:

6)  $(0, 7)$  *and*  $(-4, -1)$

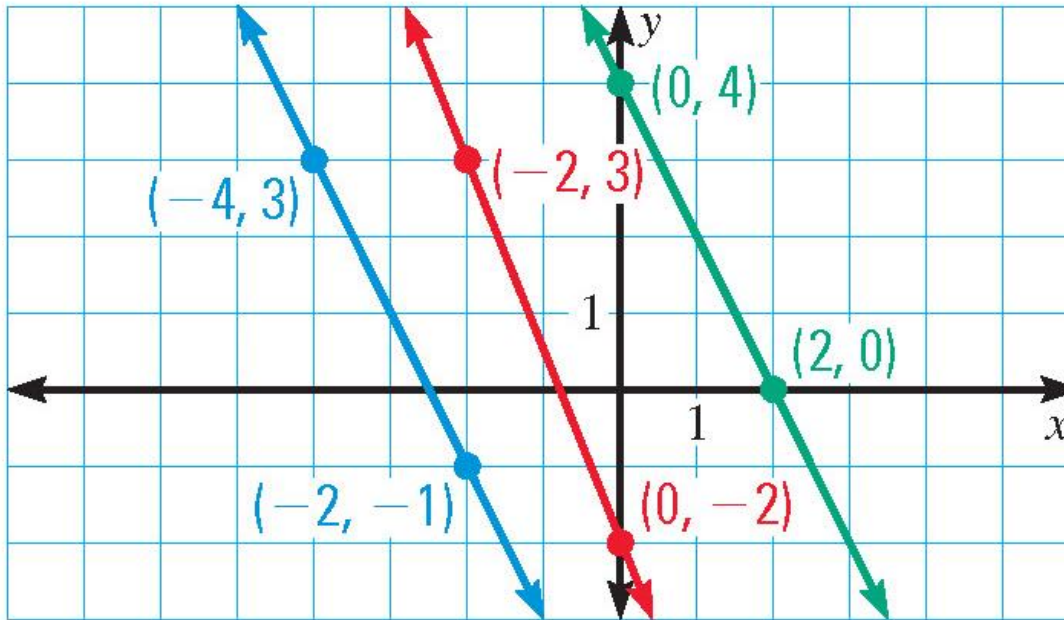
7)  $(-2, 5)$  *and*  $(9, 5)$

# Practice

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

Determine which lines are parallel.

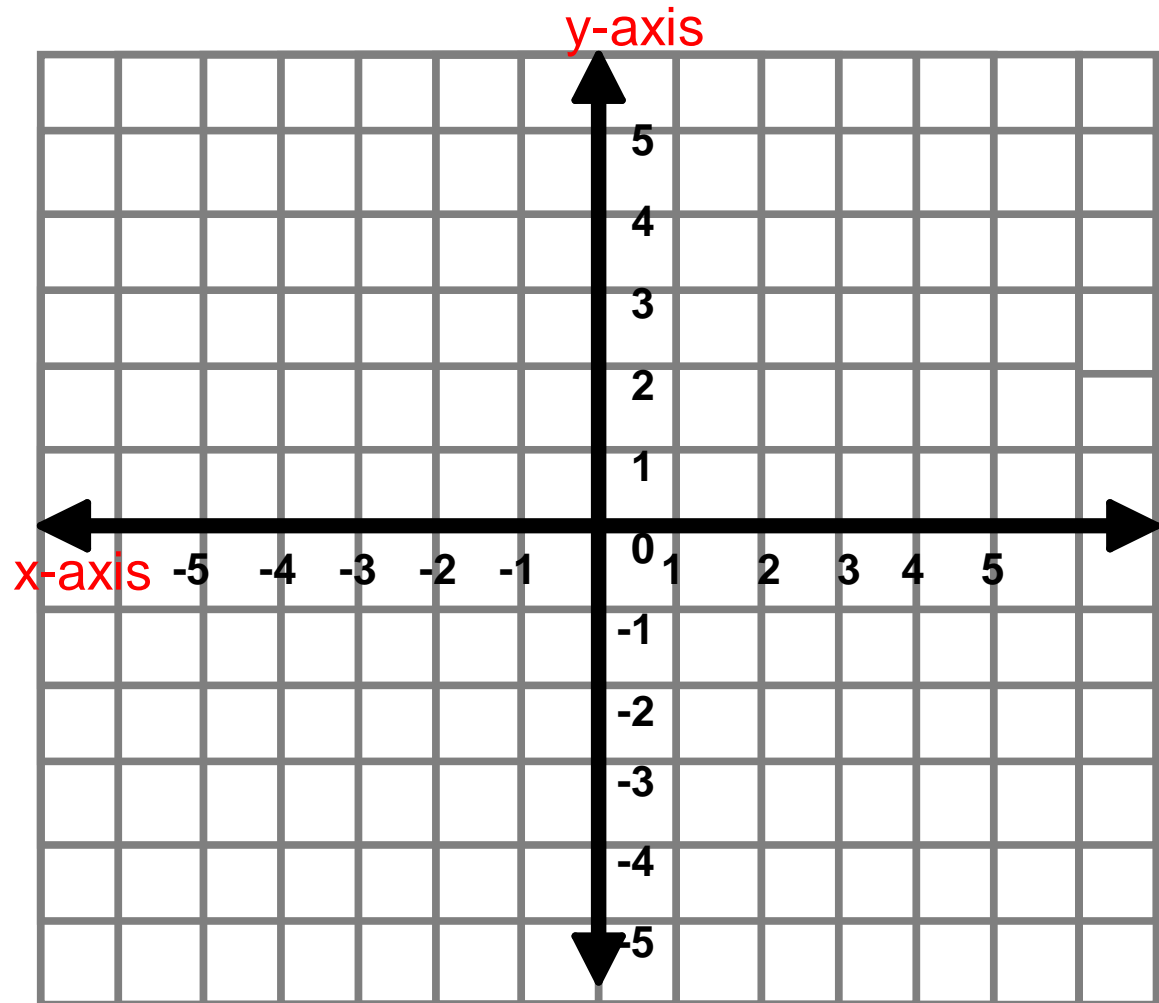
8)





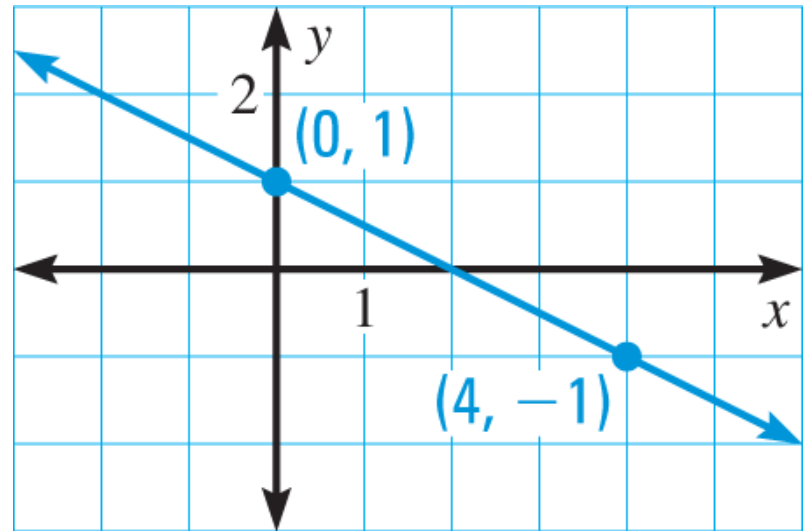
Graph the function using the slope-intercept form of a line.

9)  $y = 3x - 2$



## Practice

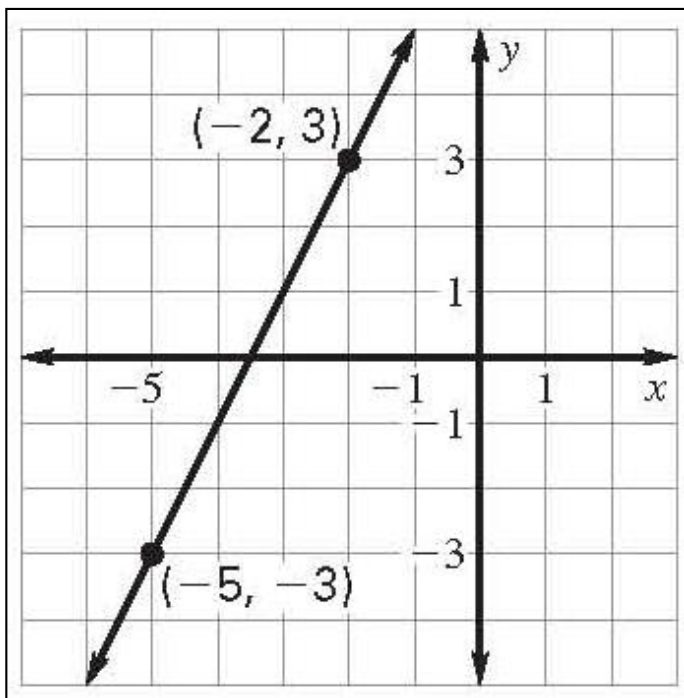
10) Write an equation of the line shown in slope-intercept form.



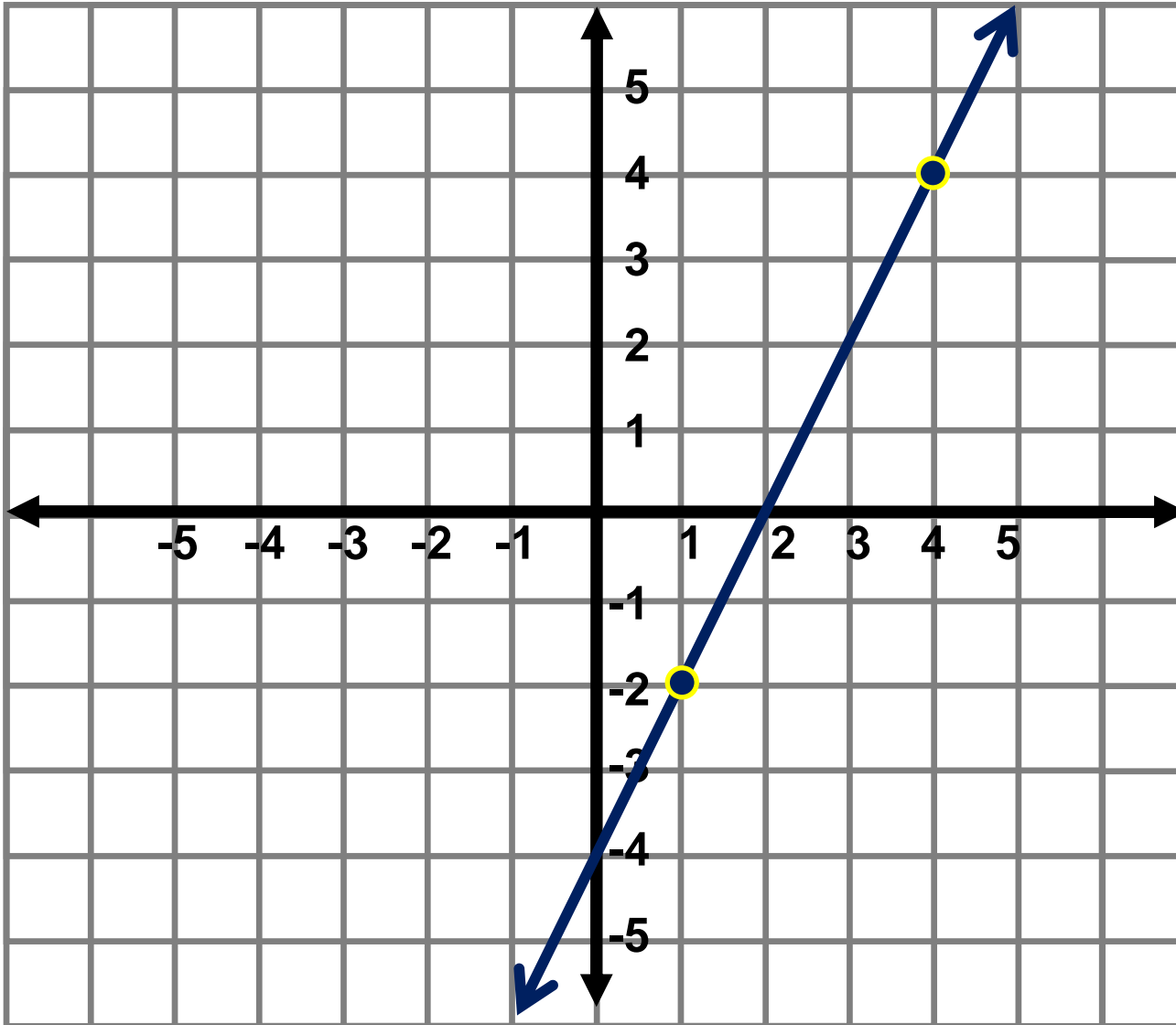
# Practice

Write an equation in point-slope form of the line shown.

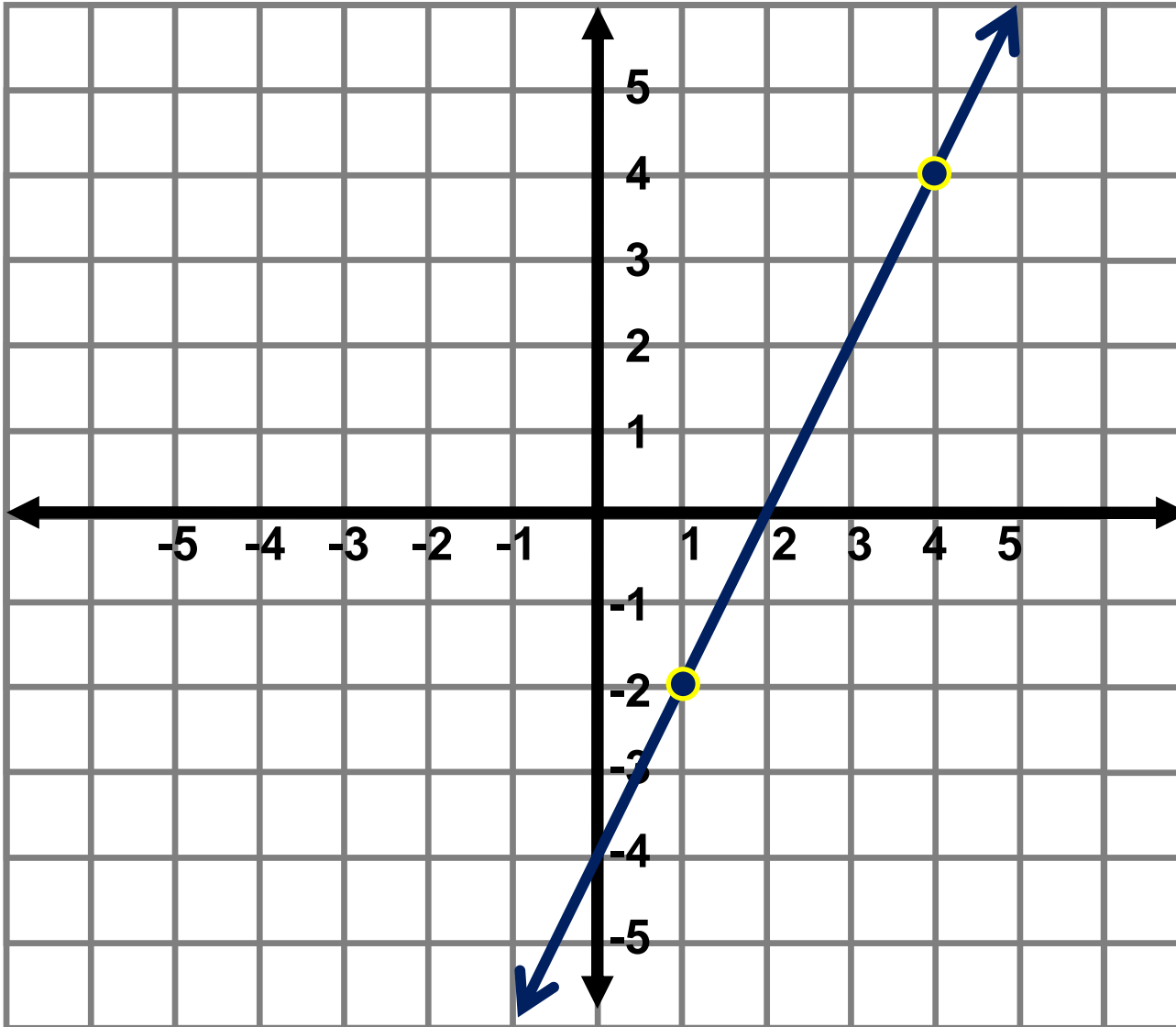
11)



12) What is the equation of this line in slope-intercept form?



13) What is the equation of this line in point-slope form?



## **Practice**

- 14) Write an equation of the line that passes through the points  $(0, -5)$ ,  $(4, -9)$ .

## **Example**

- 15) Write in slope-intercept form the equation of the line that passes through the points  $(-1, -1)$  and  $(1, 5)$ .

# Practice

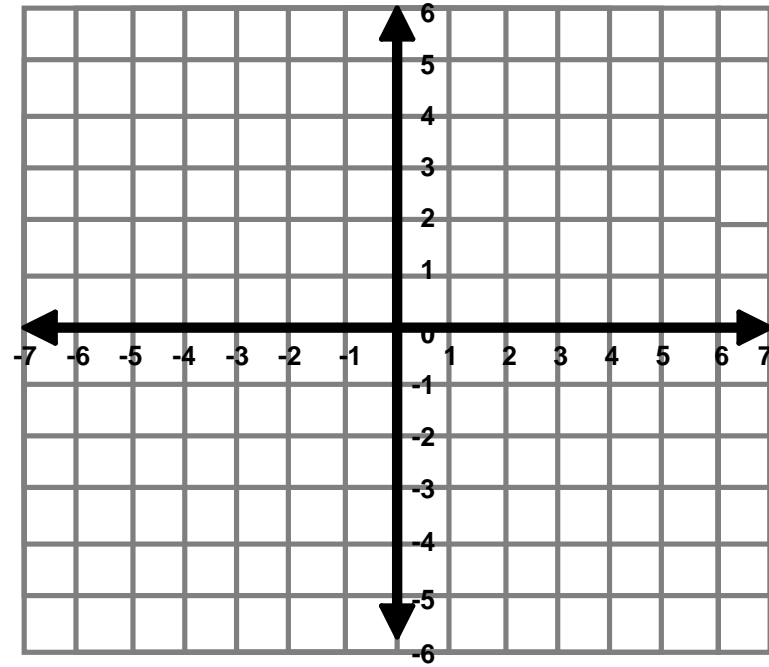
$$16) -3x + 9y = -18$$

## x-intercept

Plug-in  $y=0$  into the equation and solve for  $x$ .

## y-intercept

Plug-in  $x=0$  into the equation and solve for  $y$ .



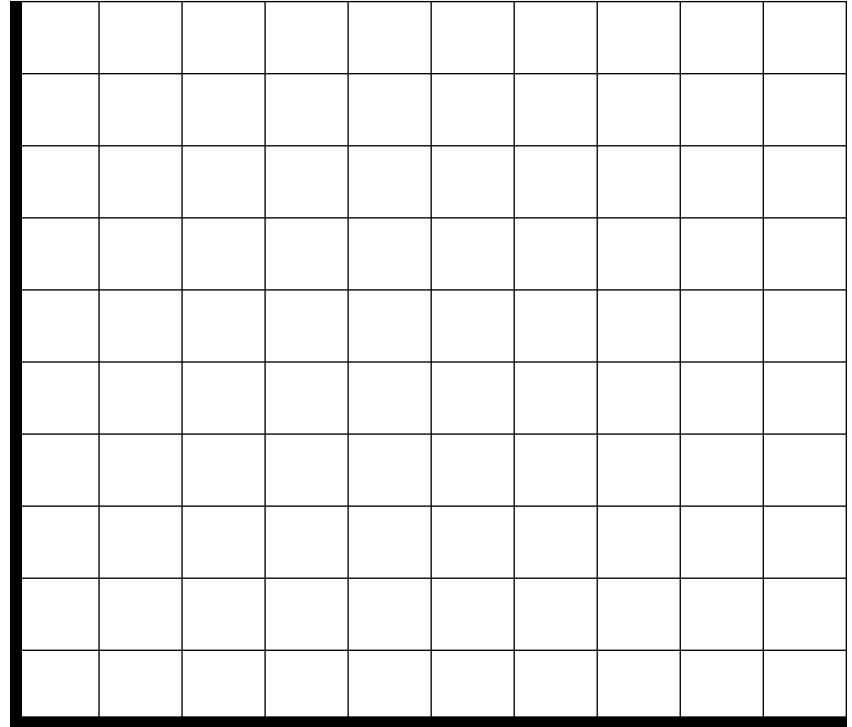
Graph the equation using the intercepts.



# Exploring

- 17) You have \$12 to spend on apples and bananas. Graph the equation  $2x + 3y = 12$  where  $x$  is the number of apples and  $y$  is the number of bananas.

Interpret the intercepts.



**In your own words, describe what a function is?  
How is it different from other relationships?**

**18) a) What variable represents the input in a function?**

**b) What are two other names for the input?**

**19) a) What variable represents the output in a function?**

**b) What are two other names for the output?**

**Tell whether the pairing is a function.**

**20)**  $\{(1, 3), (2, 0), (4, 4)\}$

**21)**  $\{(-1, 1), (7, 2), (8, 5)\}$

**22)**  $(0, -5), (2, -1), (9, 7)\}$

Determine whether the relation is a function.

23)

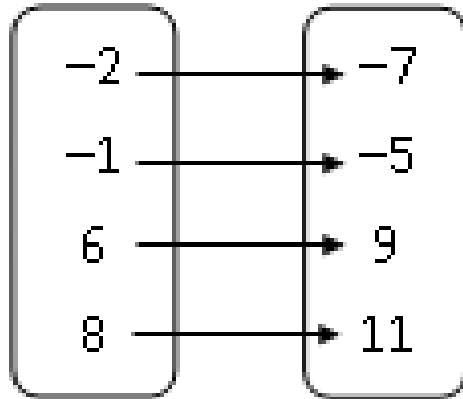
<b>x</b>	2	3	4	5
<b>y</b>	4	7	10	13

24)

<b>x</b>	3	4	3	2
<b>y</b>	-2	3	2	4

List the ordered pairs shown in the mapping diagram.

25) Input Output



26) Input Output

