

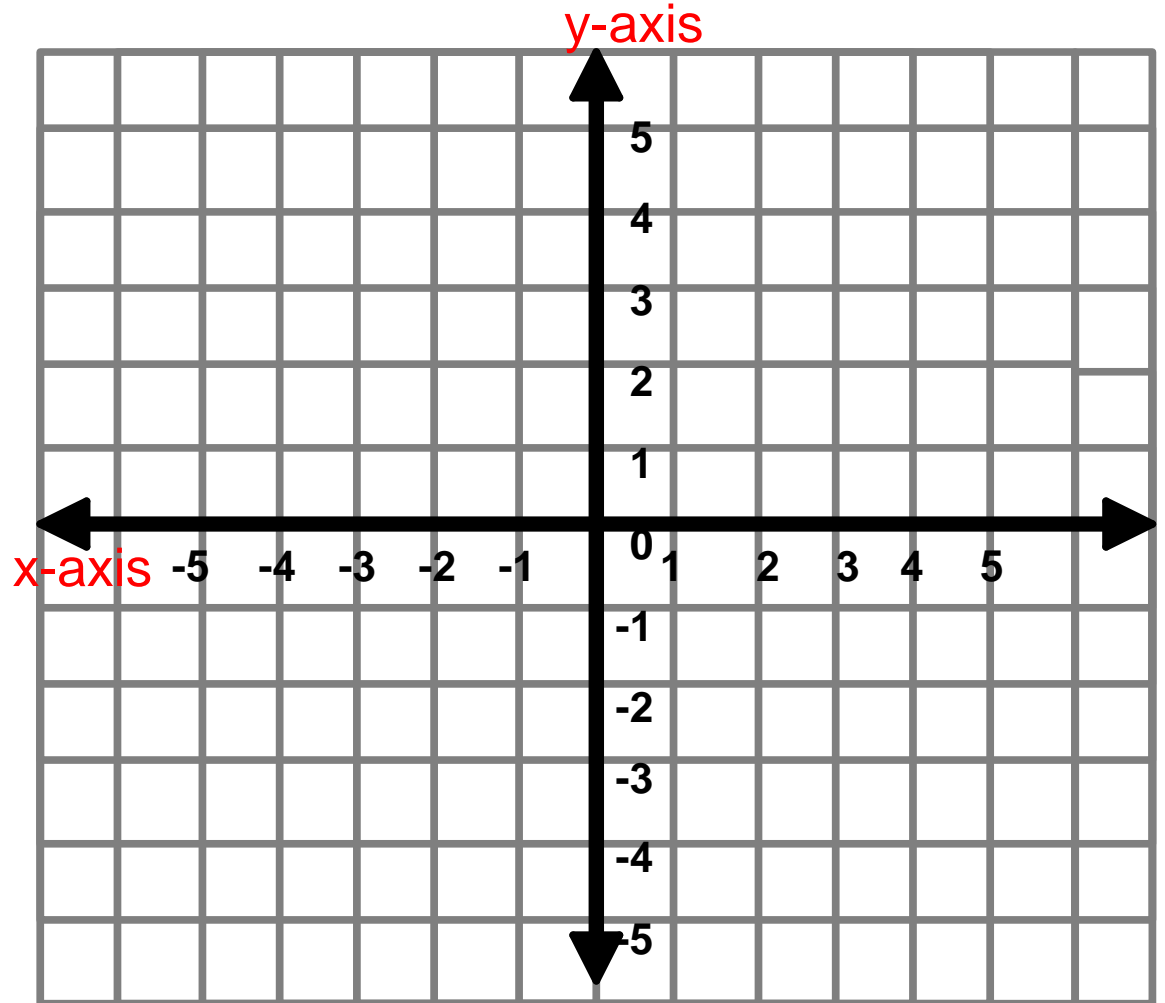
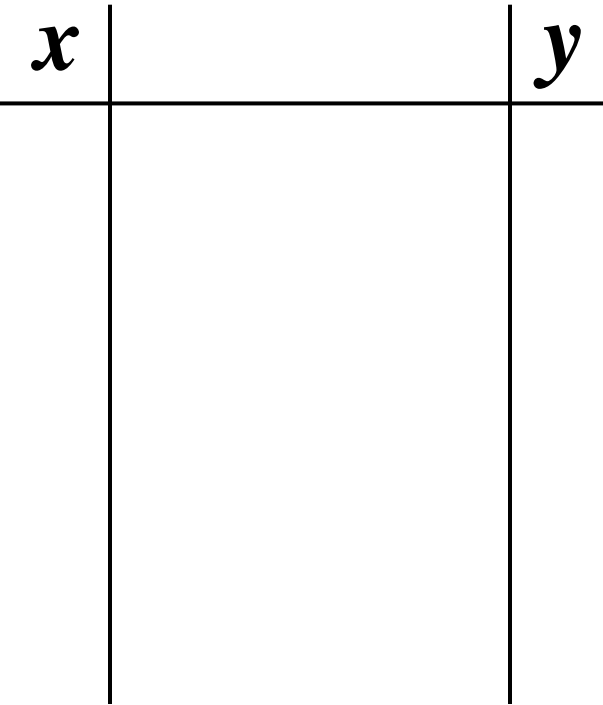
CHAPTER 4

FINAL

REVIEW

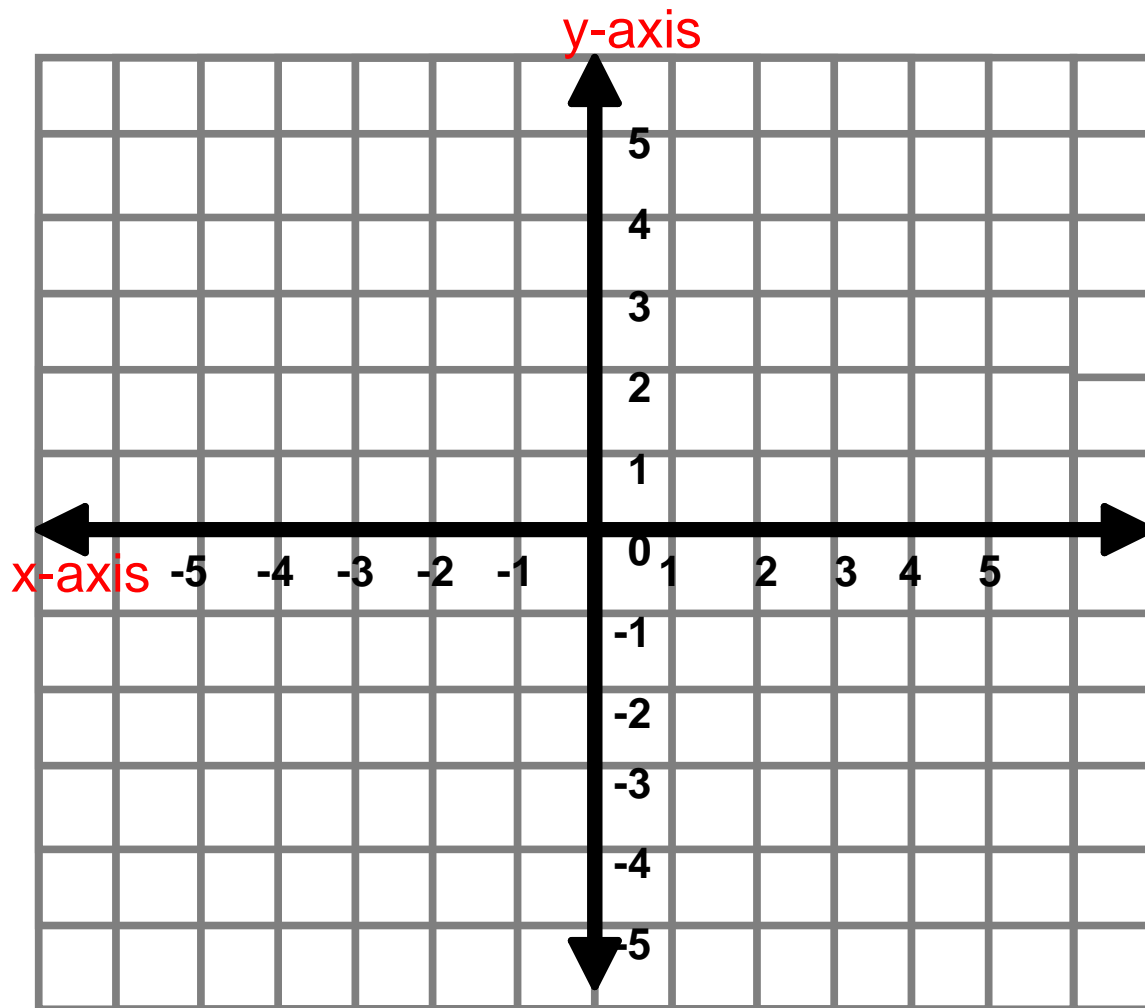
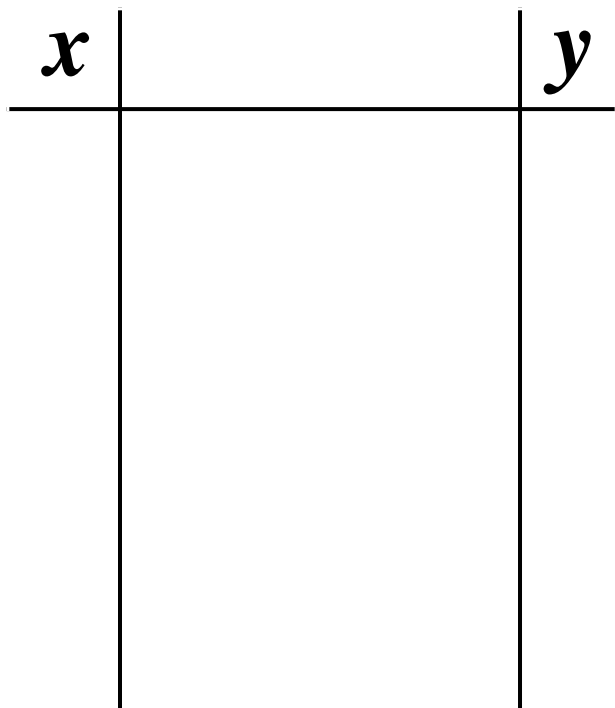
Graphing Using a Chart

1) Graph $y = 2x - 3$



2) Graph the linear equation.

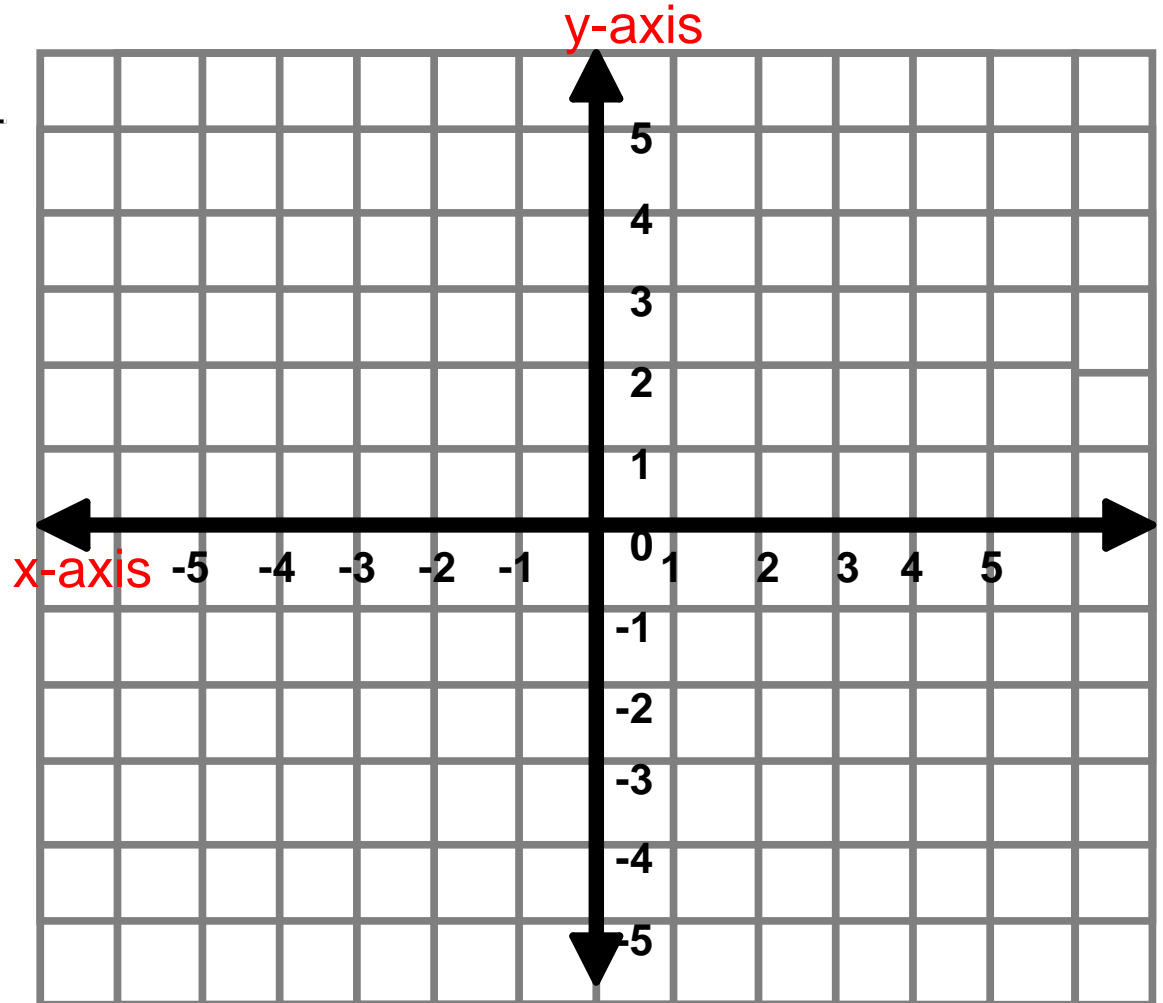
$$-3x + y = -1$$



Using a T-Chart

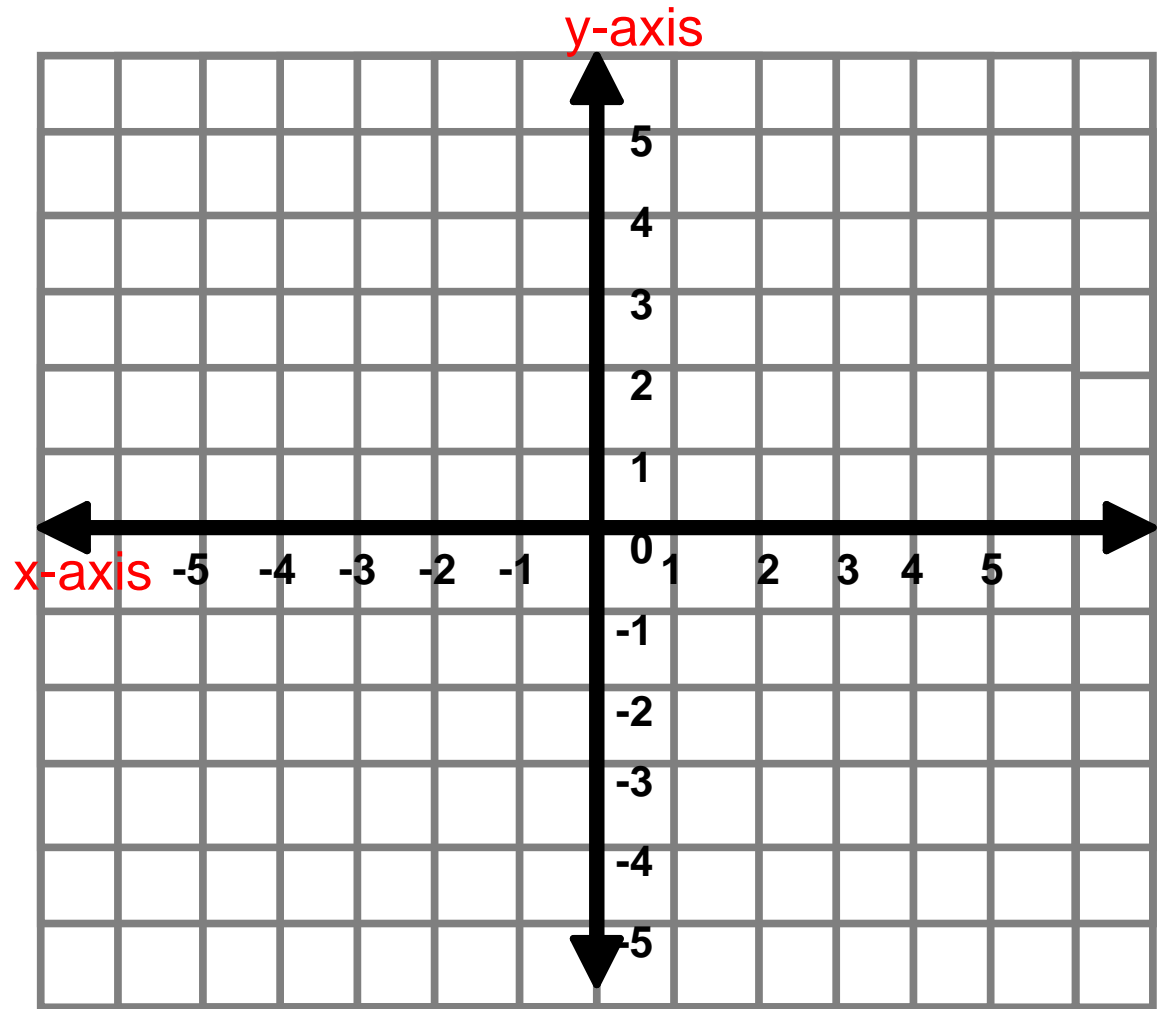
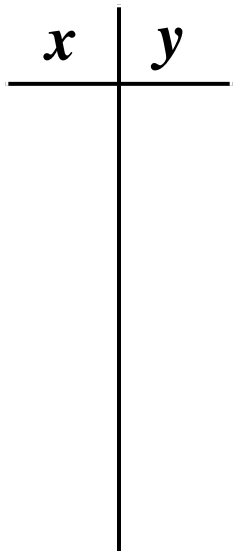
3) Graph $y = \frac{1}{2}x + 1$ using T-chart.

x	y



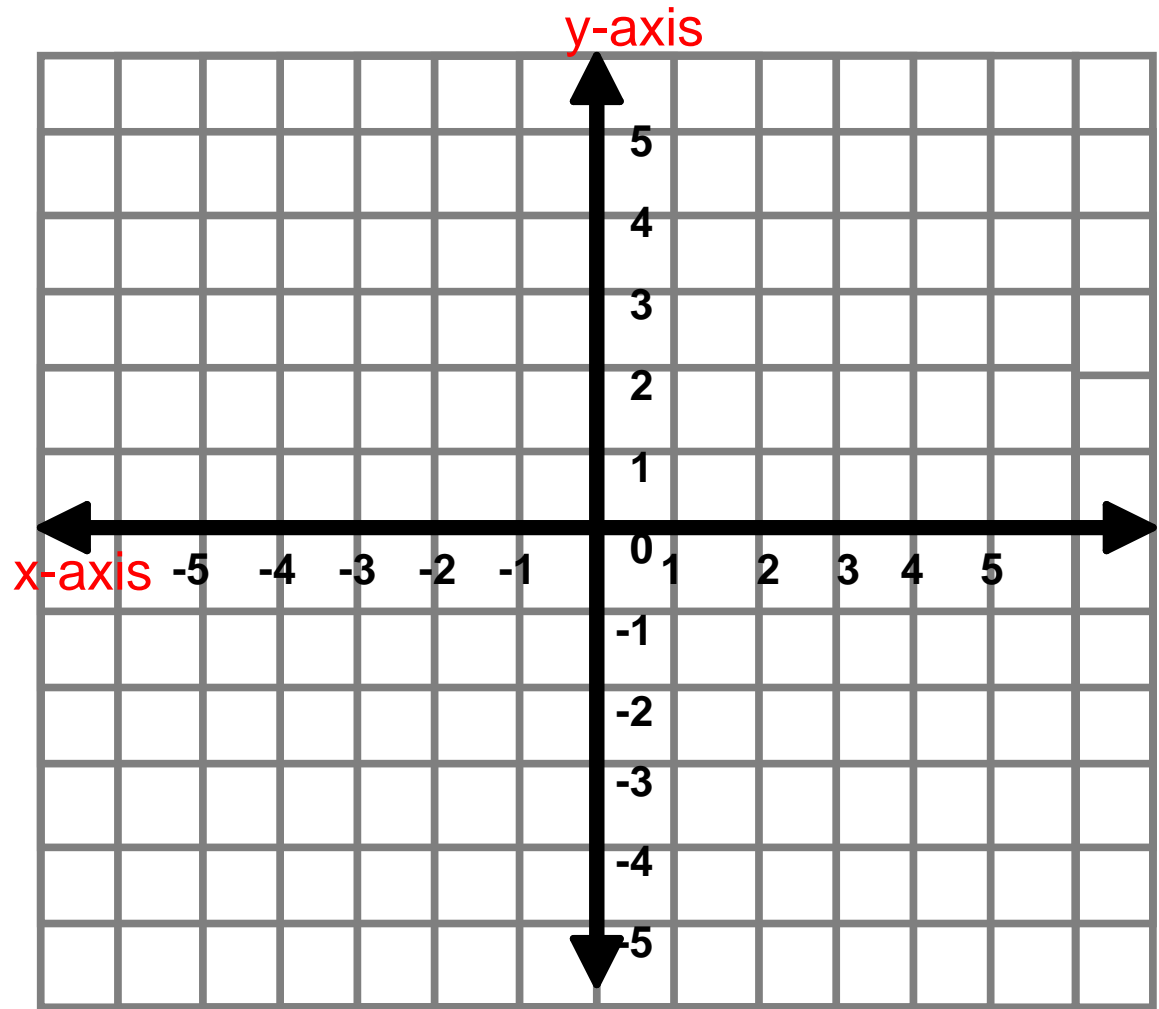
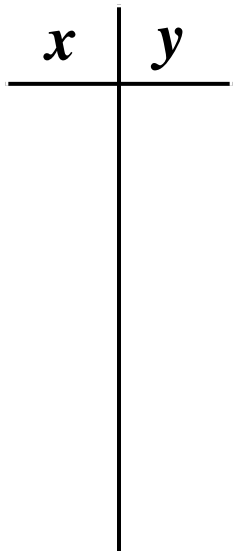
Graphing Horizontal and Vertical Lines

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* $(-4, -1)$

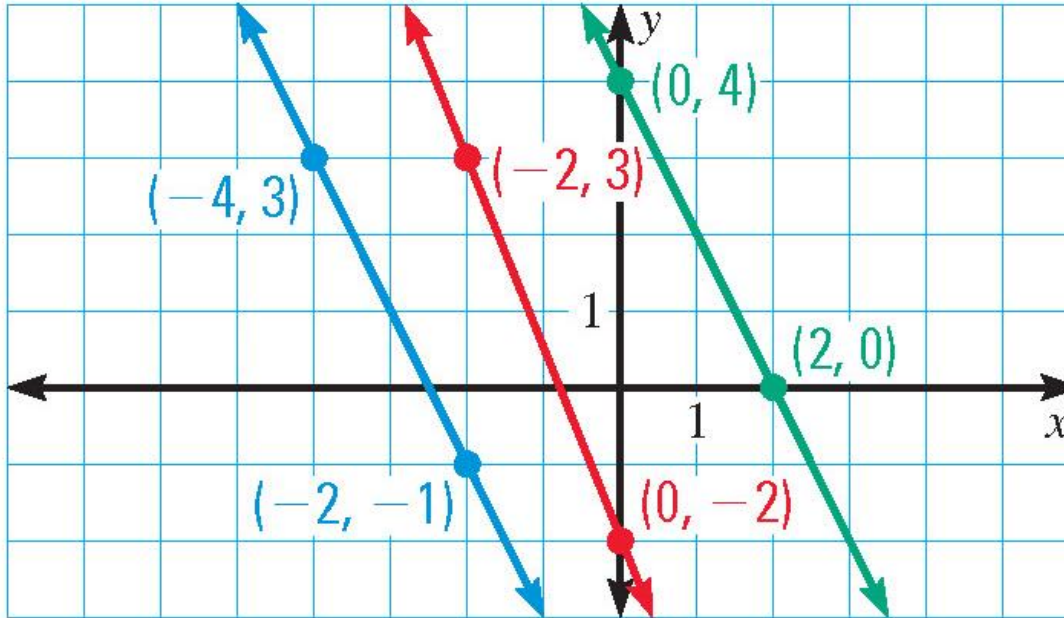
7) $(-2, 5)$ *and* $(9, 5)$

Practice

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

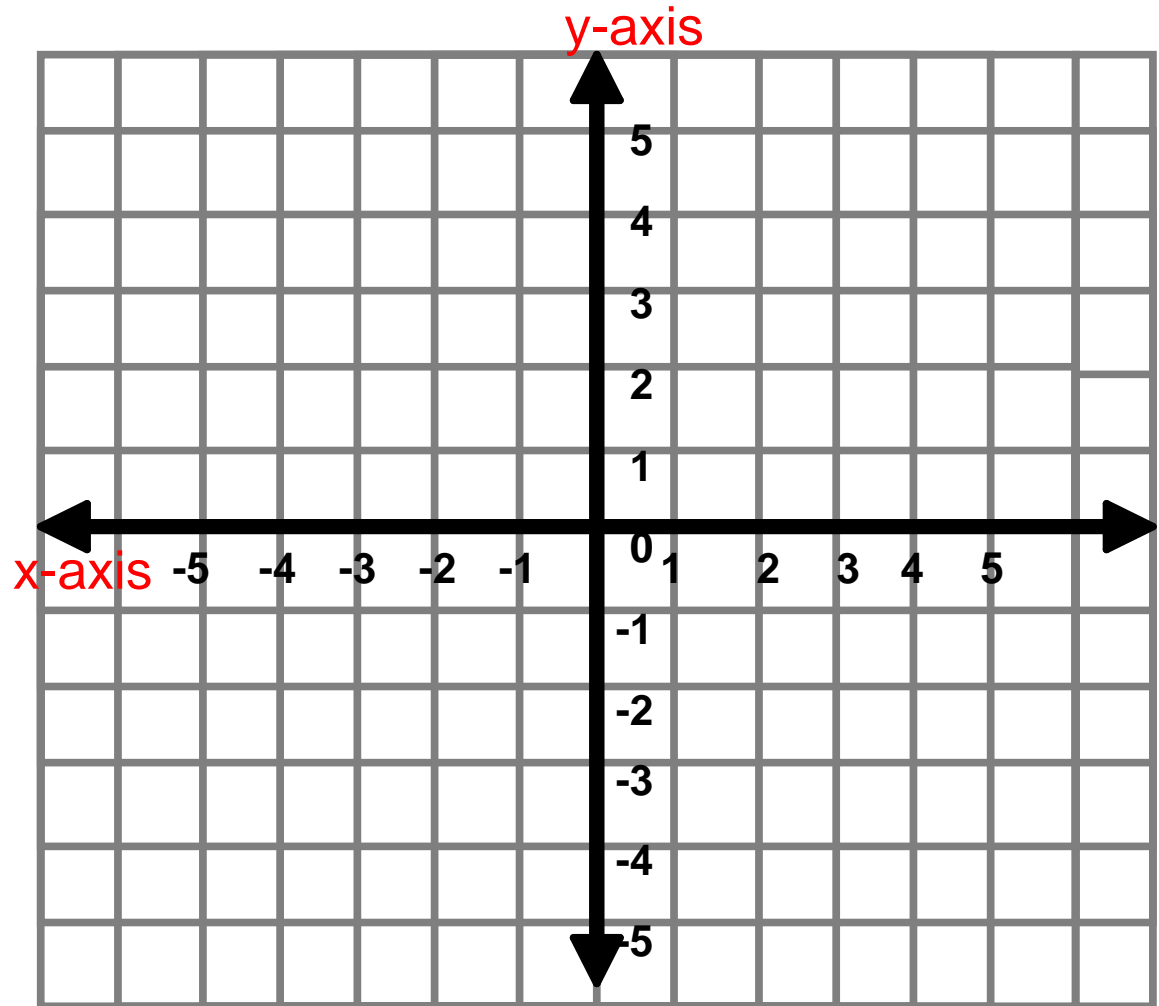
Determine which lines are parallel.

8)



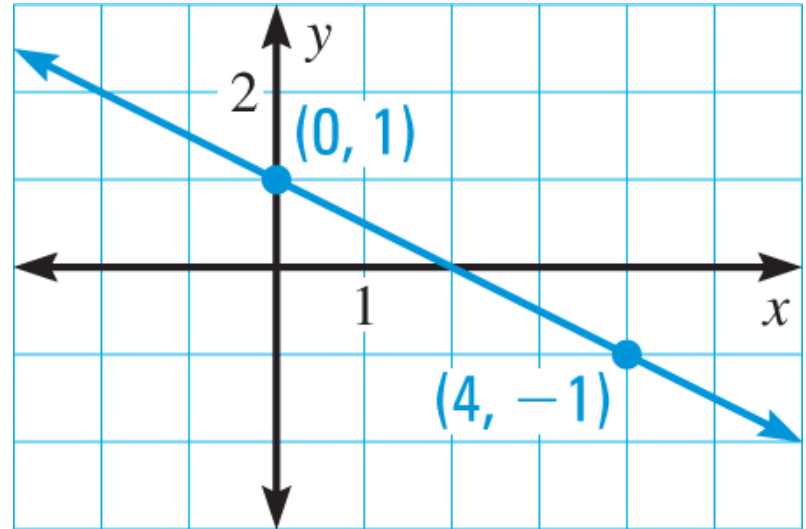
Graph the function using the slope-intercept form of a line.

9) $y = 3x - 2$



Practice

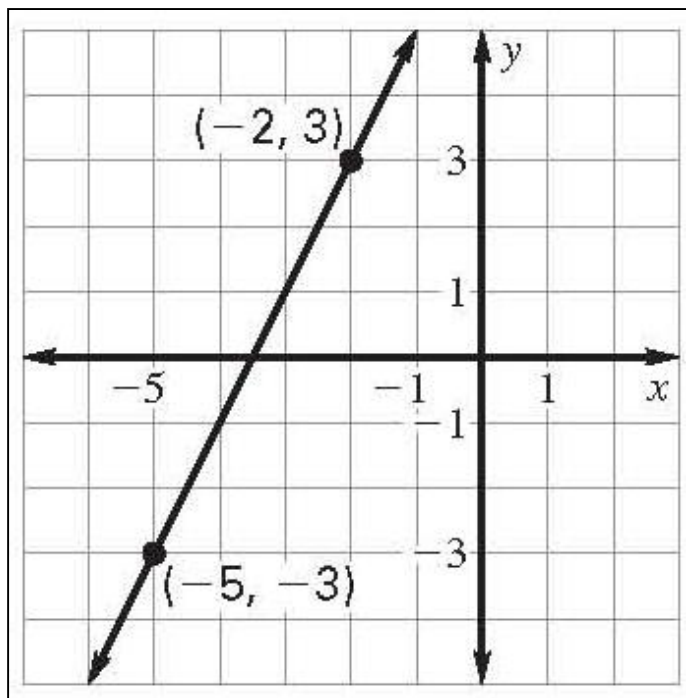
- 10) Write an equation of the line shown in slope-intercept form.



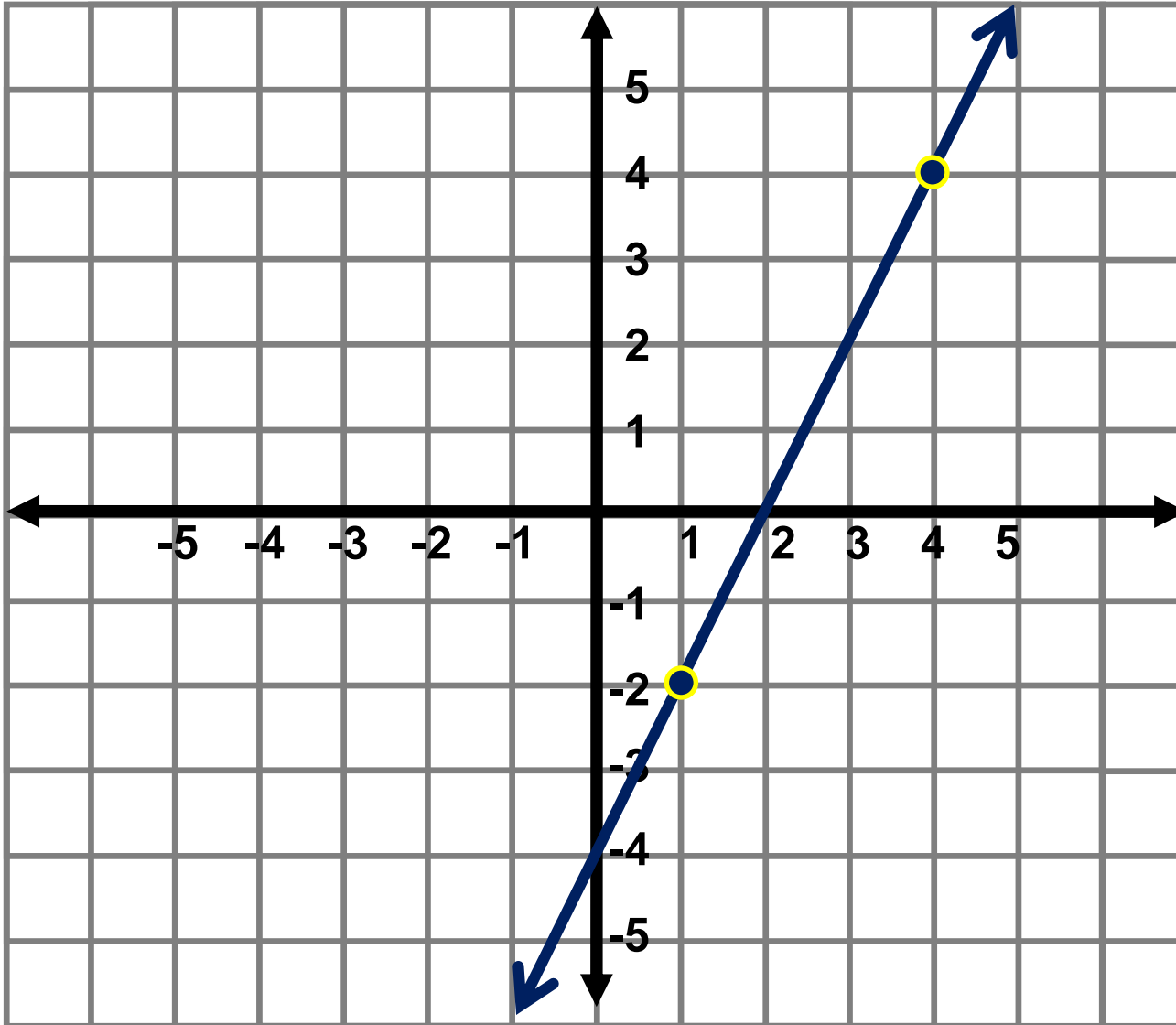
Practice

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

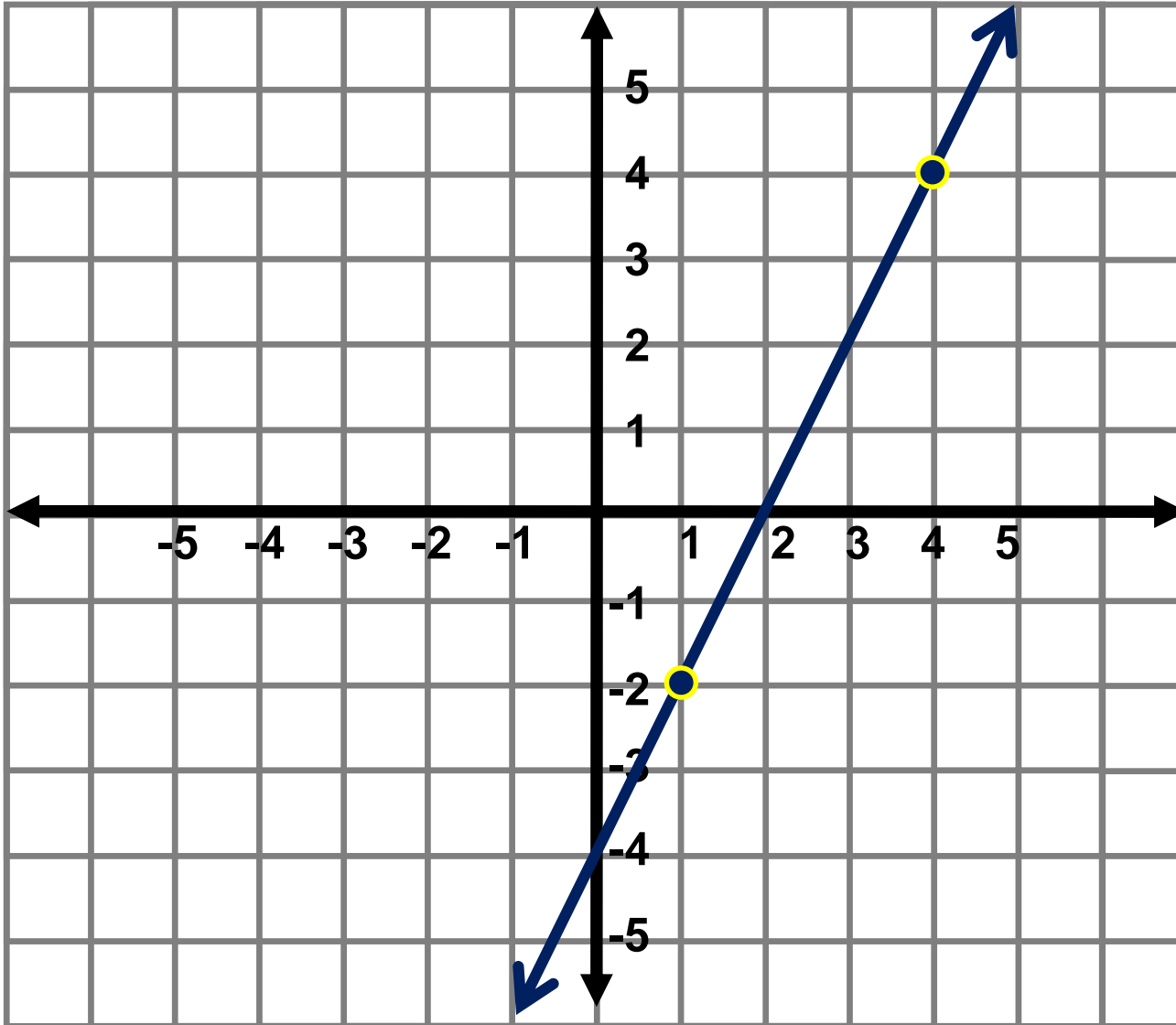
11)



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

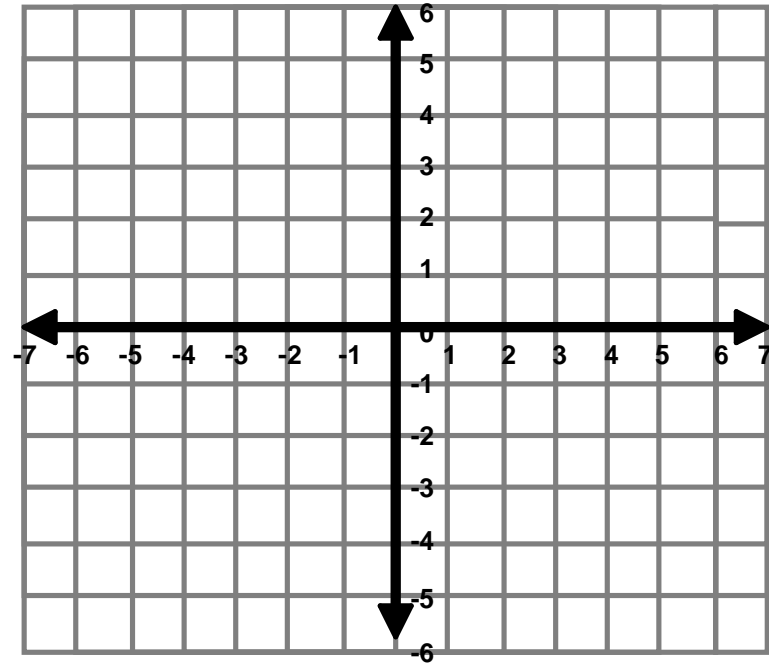
$$16) -3x + 9y = -18$$

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 .

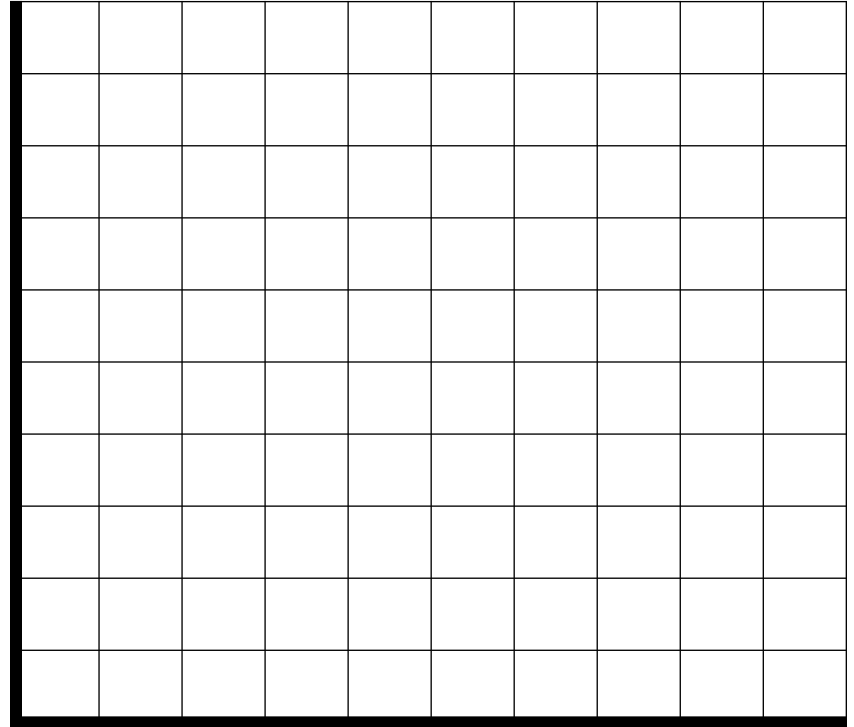


Graph the equation using the intercepts.

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)

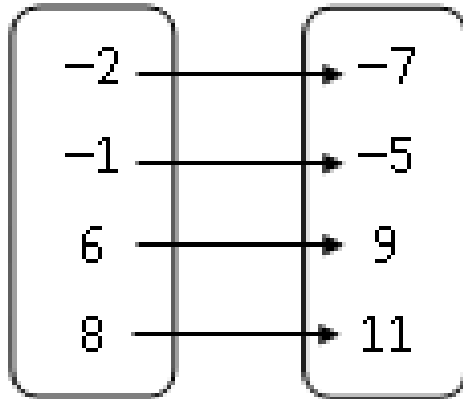
x	2	3	4	5
y	4	7	10	13

24)

x	3	4	3	2
y	-2	3	2	4

List the ordered pairs shown in the mapping diagram.

25) Input Output



26) Input Output

