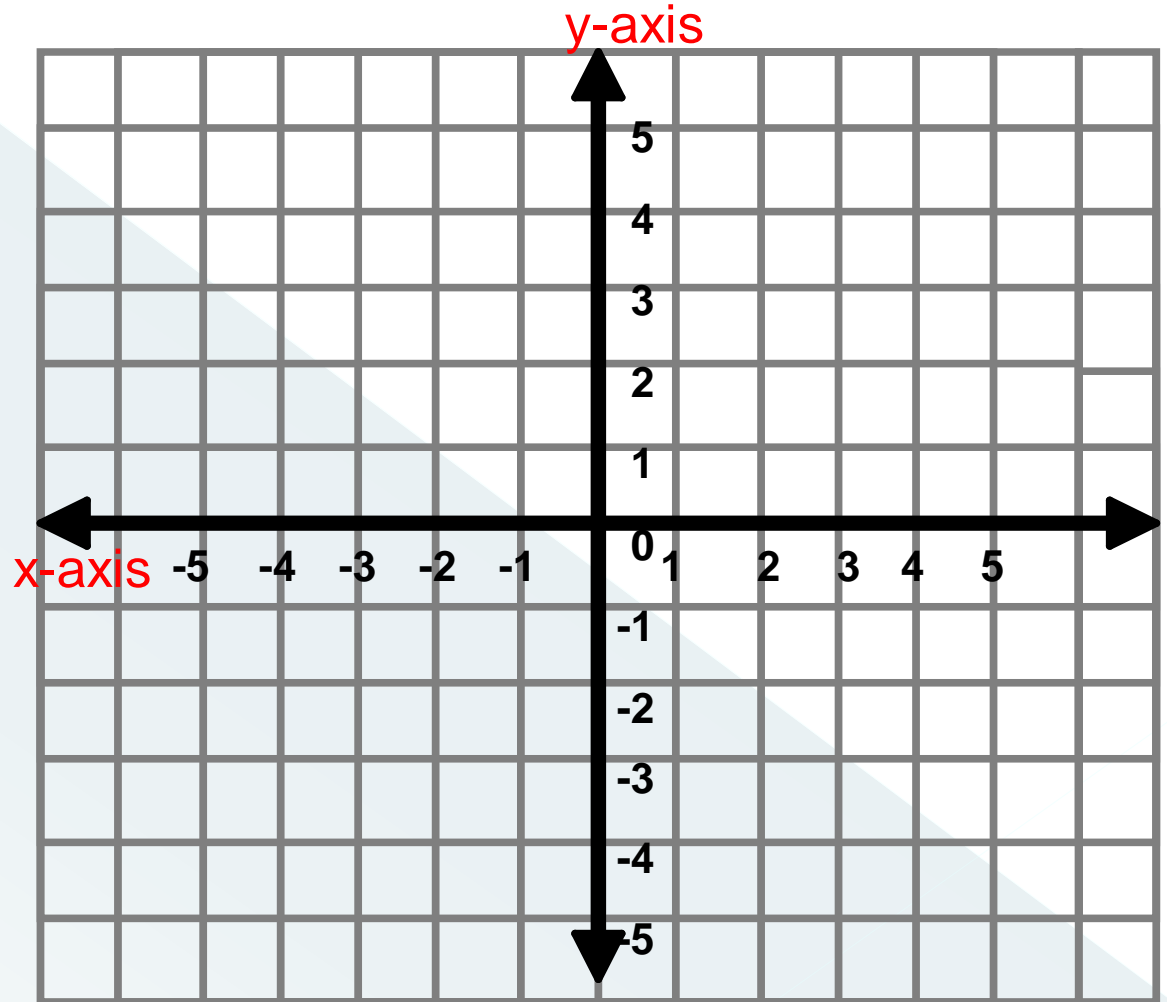


4.1-4.3
Revisited

Graphing Using a Chart

1) Graph $y = 3x - 4$

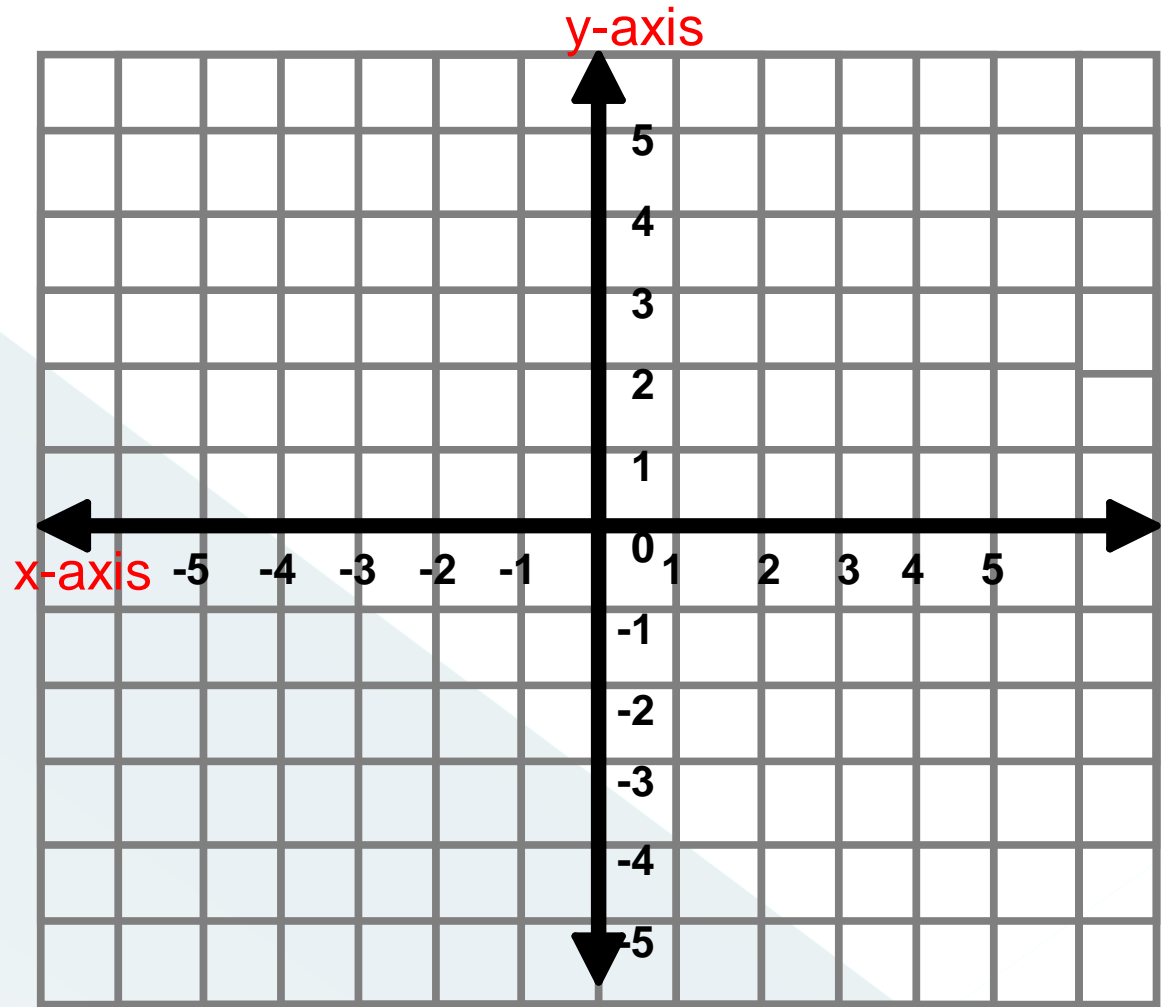
x	y



2) Graph the linear equation.

$$y = -2x + 1$$

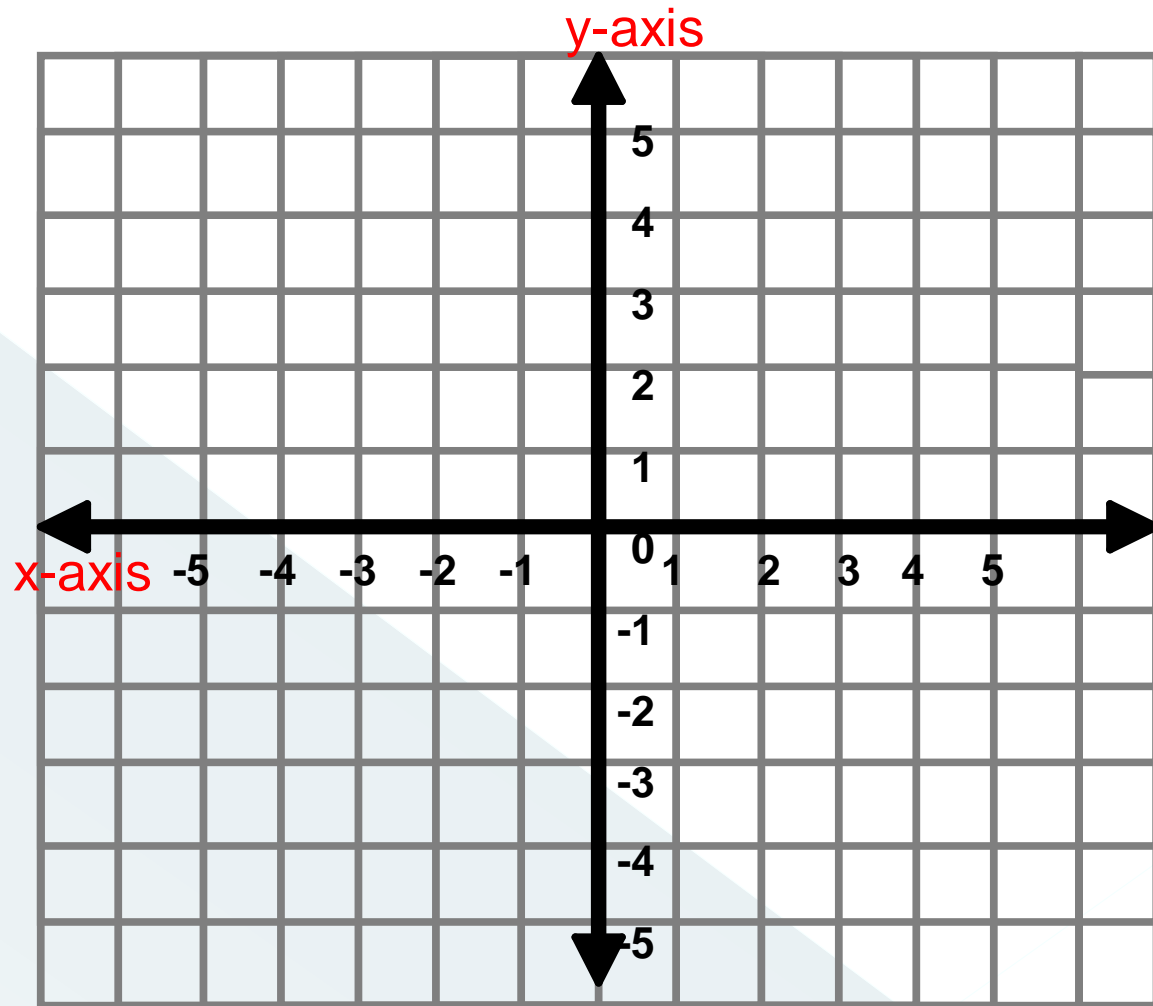
x	y



2) Graph the linear equation.

$$-4x + y = -1$$

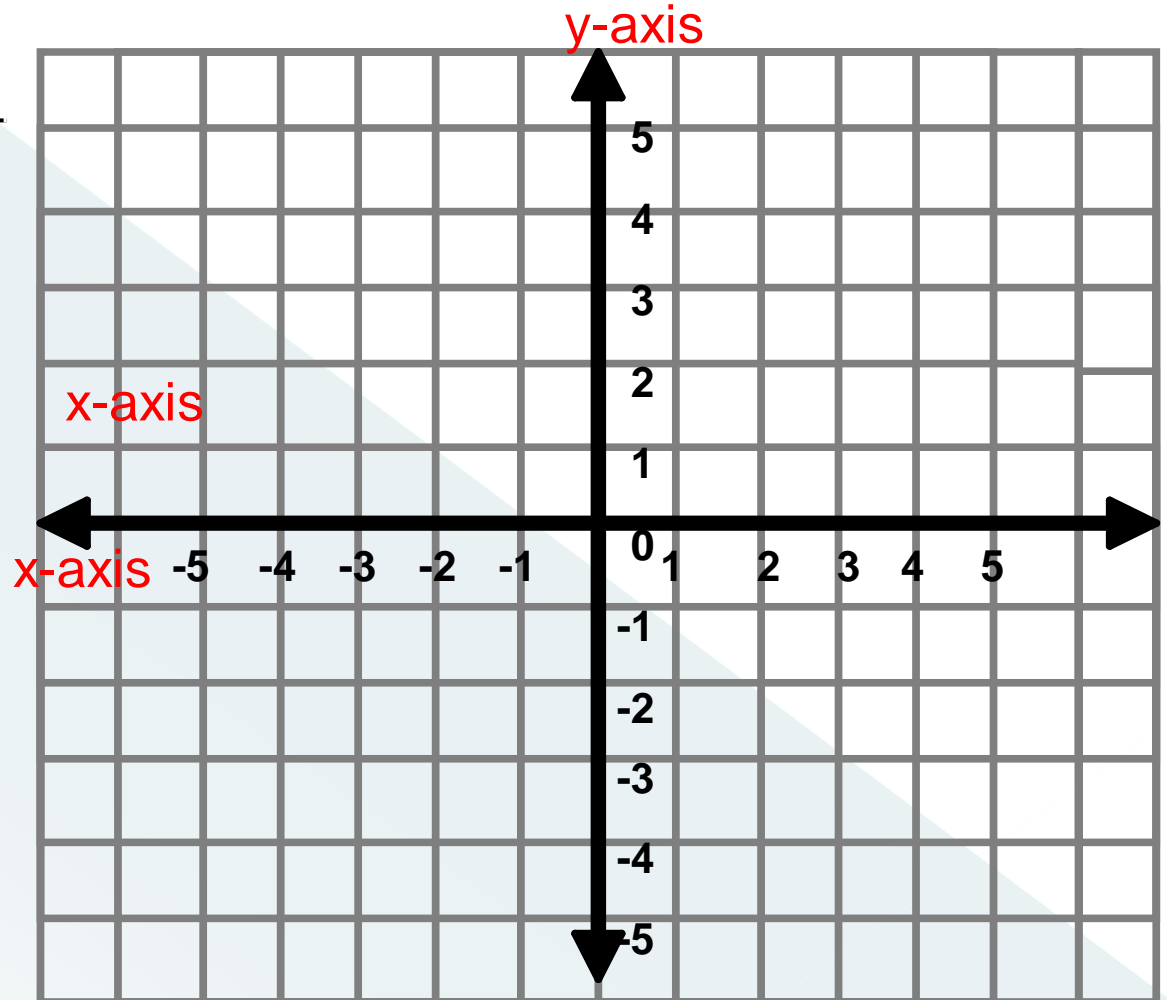
x	y



Using a T-Chart

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

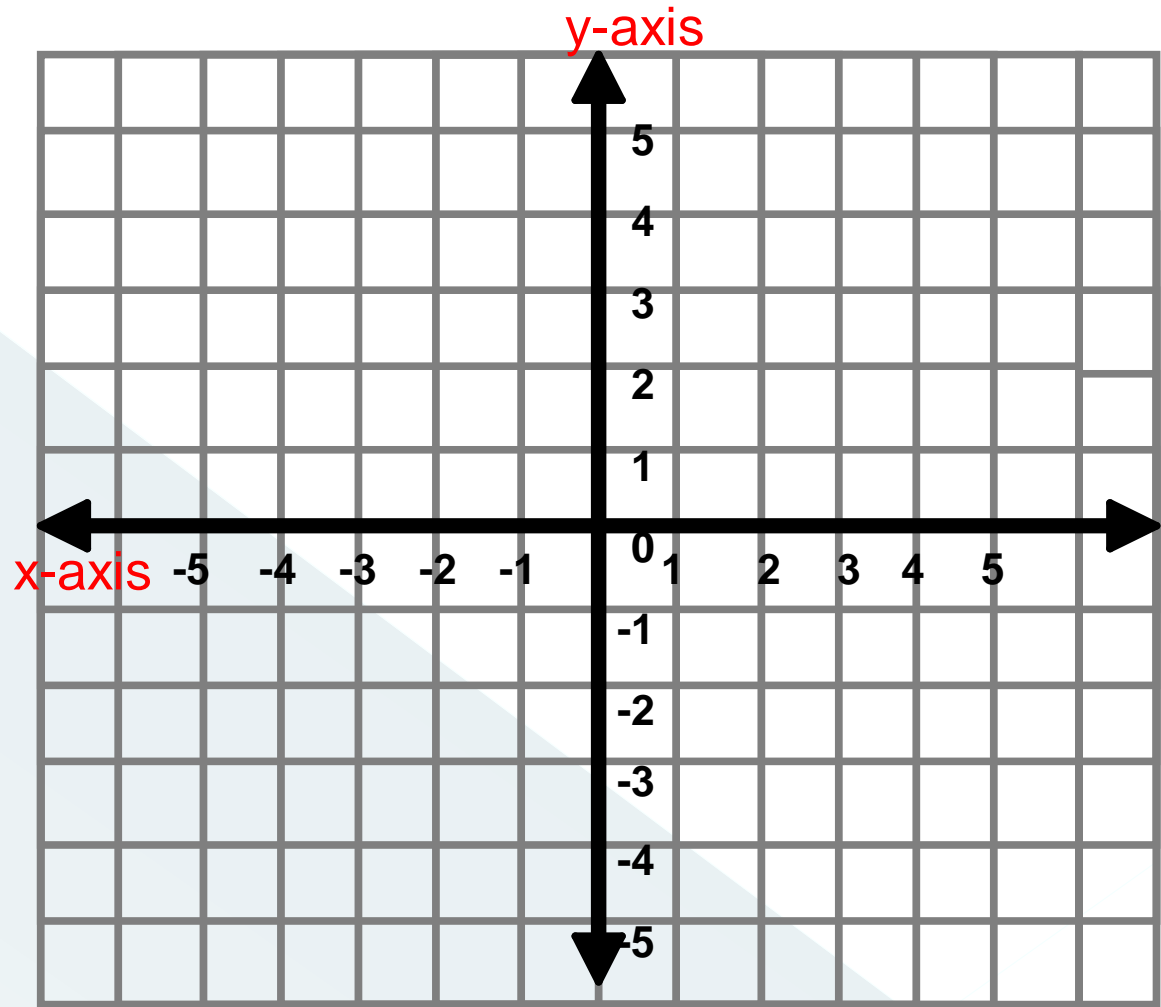
x	y



Graphing Horizontal and Vertical Lines

5) $y = -3$

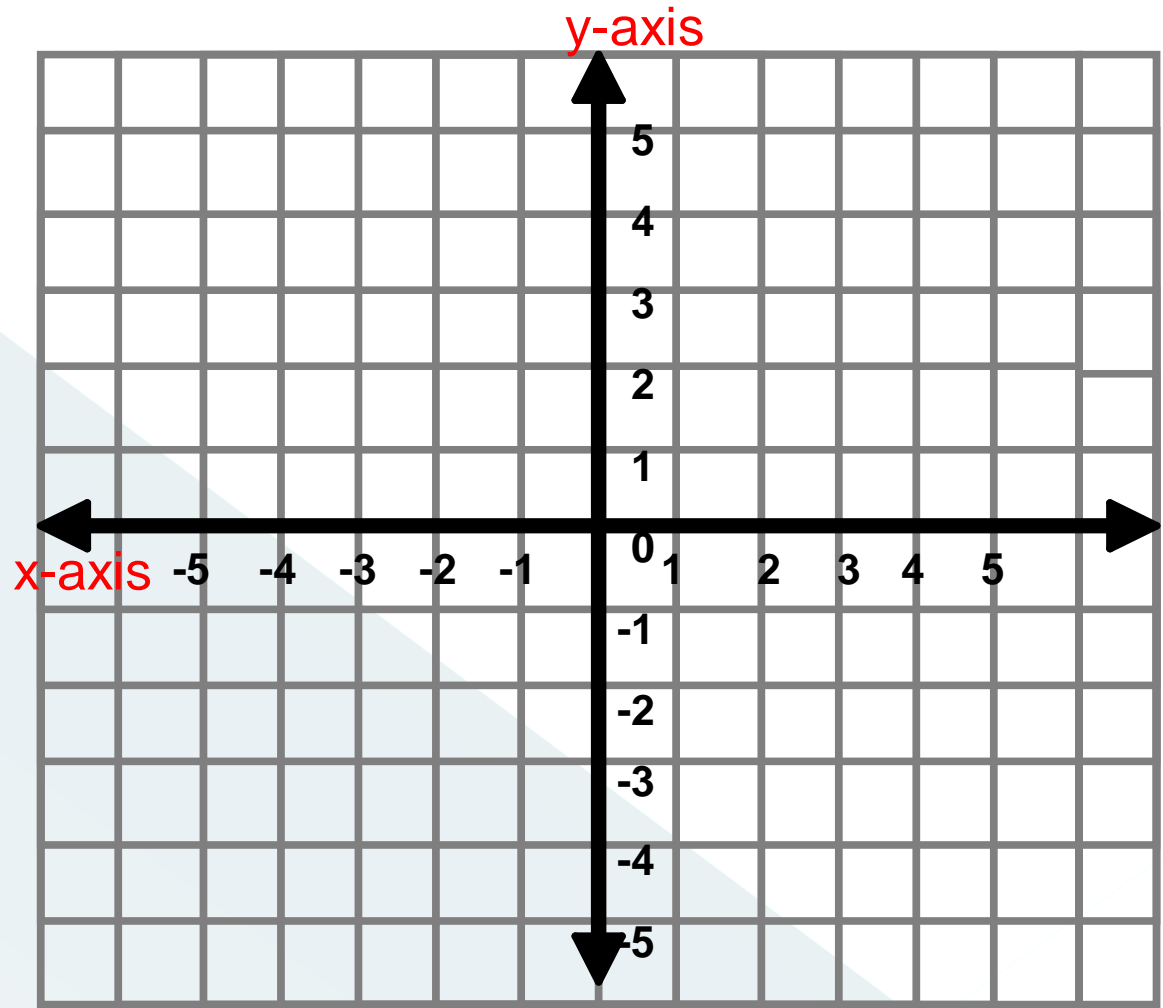
x	y



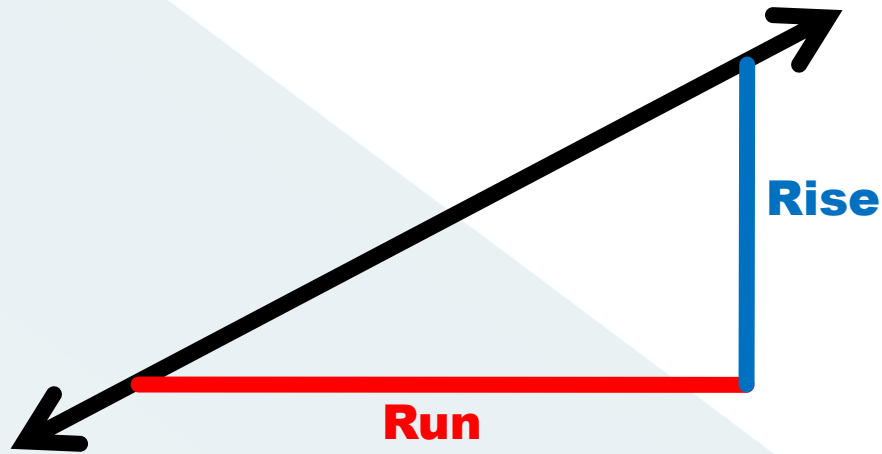
Graphing Horizontal and Vertical Lines

6) $x = 4$

x	y



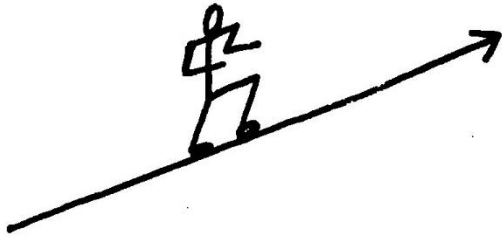
SLOPE OF A LINE



$$\text{slope} = \frac{\text{rise}}{\text{run}}$$

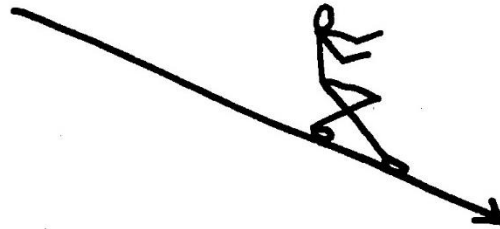
SLOPE OF A LINE

going up



positive slope

going down



negative slope

level

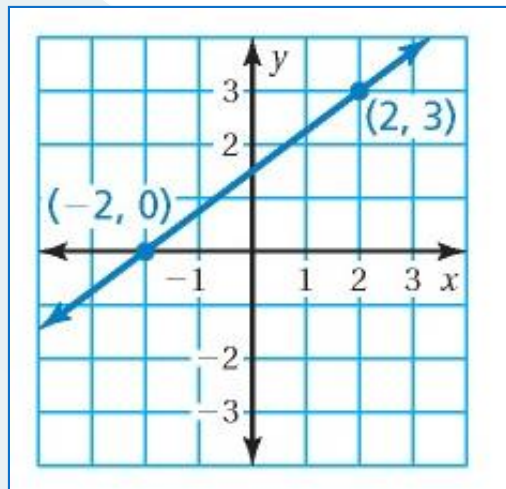


0 slope

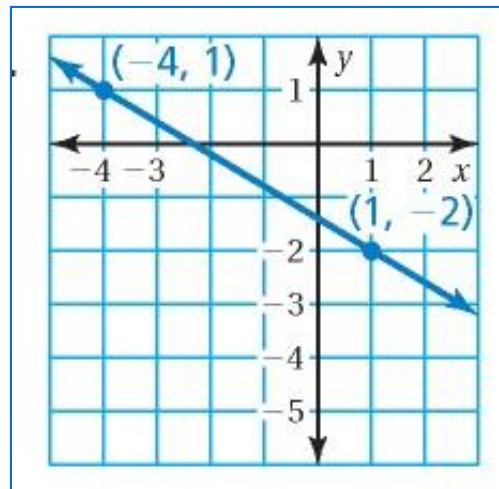
Find the slope of each line.

$$\text{slope} = \frac{\text{rise}}{\text{run}}$$

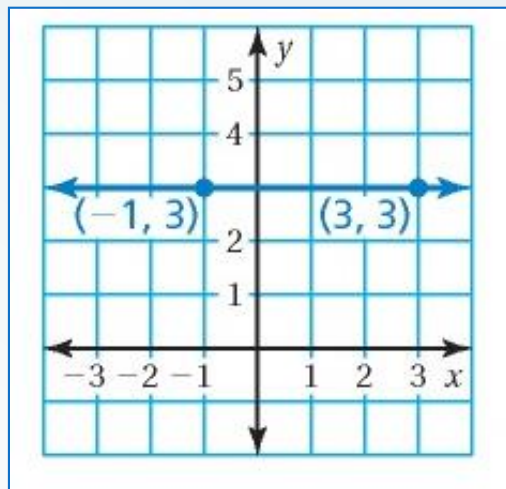
7)



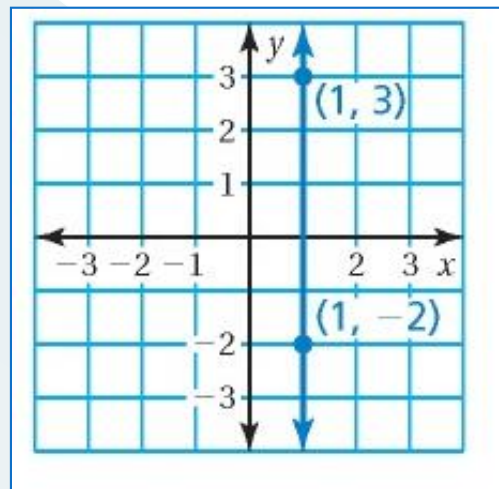
8)



9)



10)



SLOPE FORMULA

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

Find the slope between the two points:

11) $(0, 7)$ *and* $(-4, -1)$

12) $(-2, 5)$ *and* $(9, 5)$

SLOPE FORMULA

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

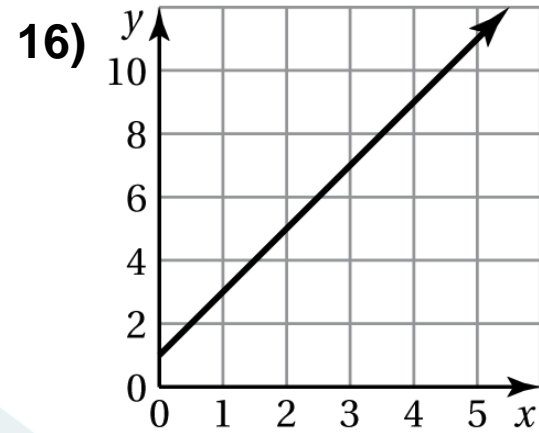
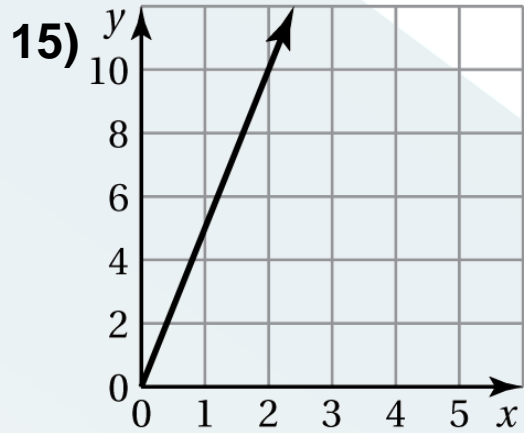
Find the slope between the two points:

13) $(11, -8)$ *and* $(3, 4)$

14) $(-3, 9)$ *and* $(-3, 5)$

Practice

Tell whether x and y are in a proportional relationship. Explain your reasoning. If so, write an equation that represents the relationship.



Practice

Tell whether x and y are in a proportional relationship. Explain your reasoning. If so, write an equation that represents the relationship.

17)

x	1	3	6	8
y	3	6	8	11

18)

x	4	8	12	16
y	2	4	6	8

Application

19) The cost y (in dollars) for x gigabytes of data on an Internet plan is represented by $y = 10x$. Graph the equation and interpret the slope.

a) Make a T-chart of this relationship if x represents the number of gigabytes and y represents the cost.

b) Make a line graph of this with at least three points and make sure to label the graph.

c) What is k ?

d) What is the slope?

e) What does the slope mean?

