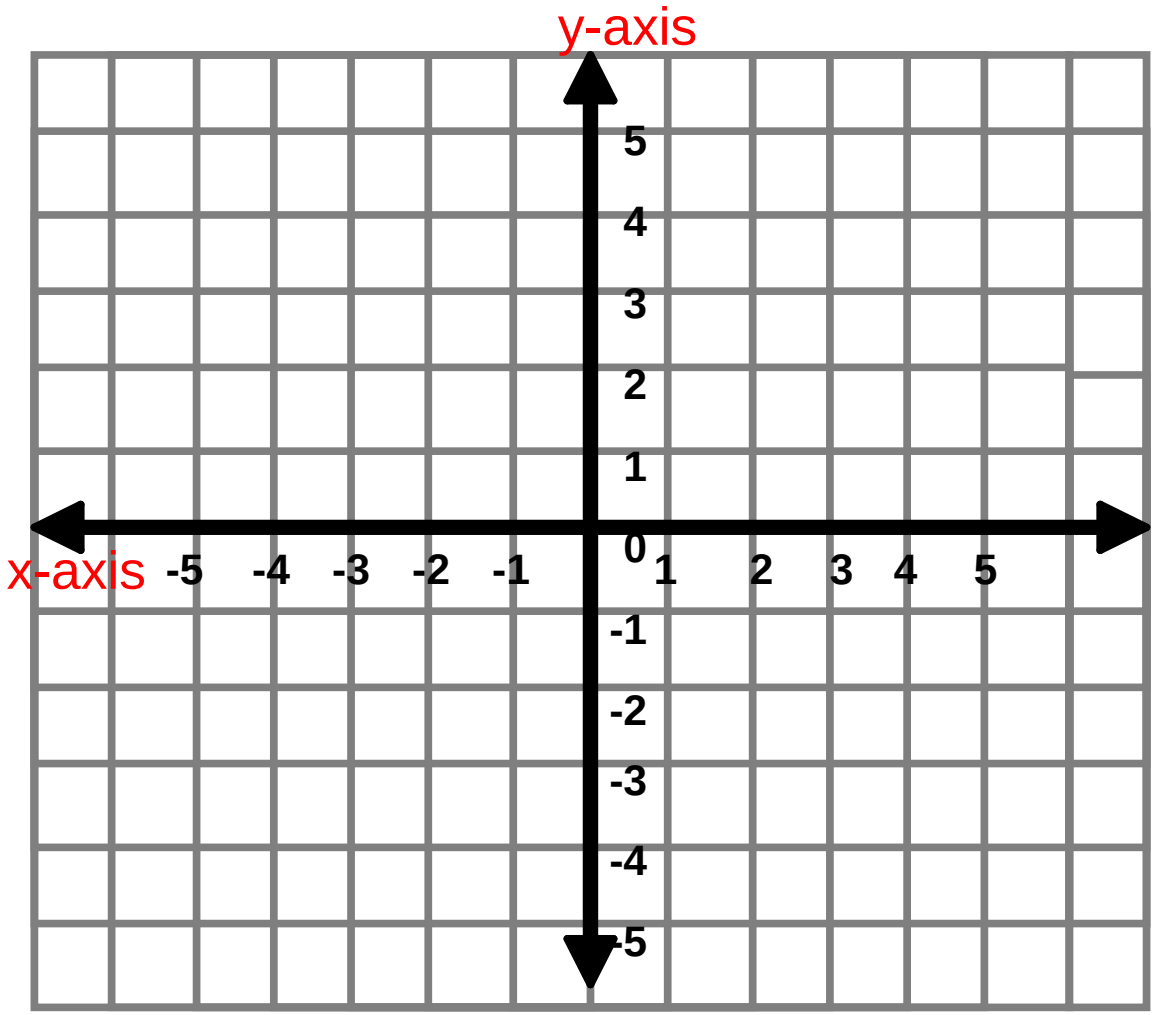
4.1-4.3 Review

Graphing Using a Chart

1) Graph $y = 2x - 3$

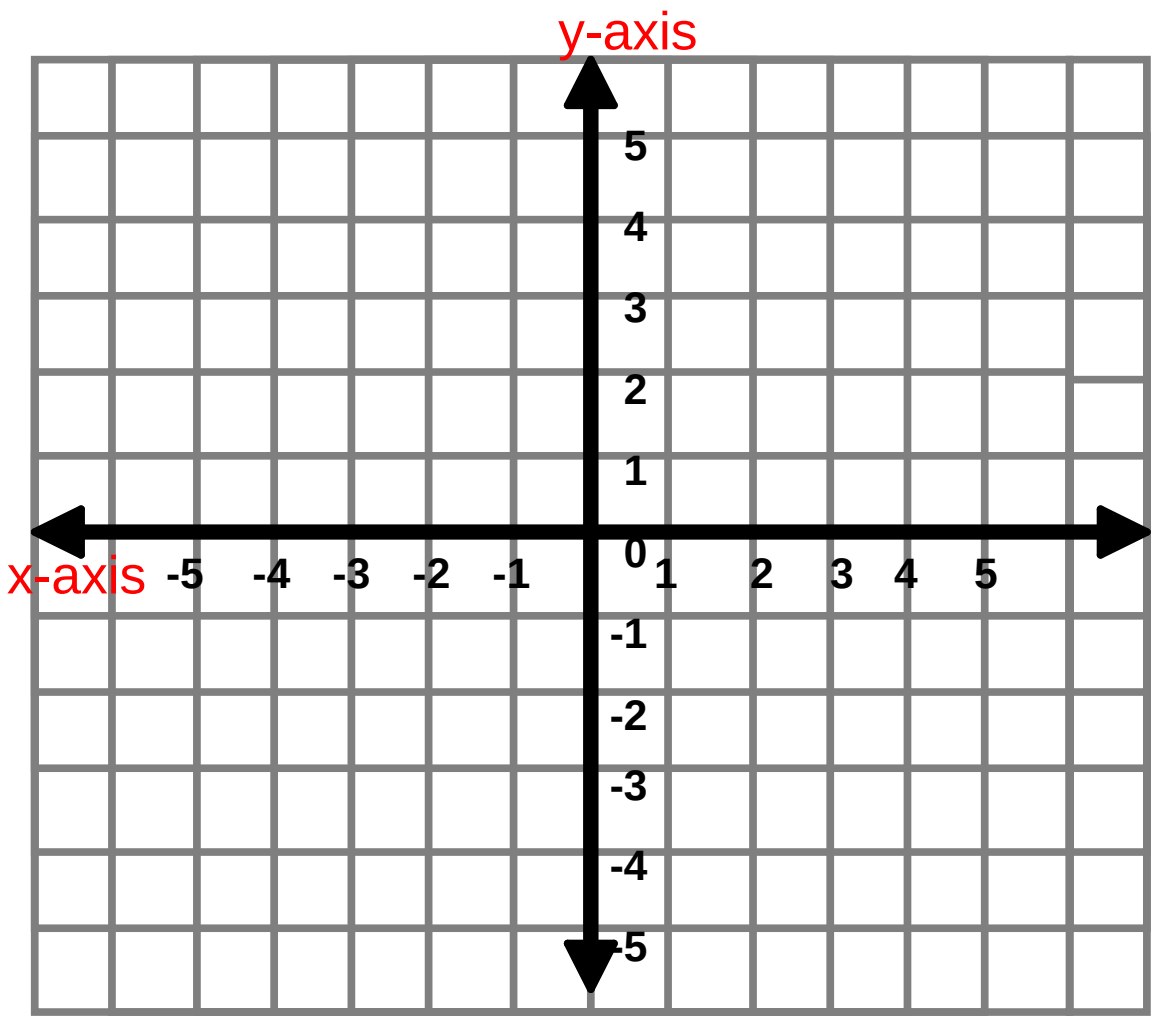
x	y



2) Graph the linear equation.

$$y = -x + 4$$

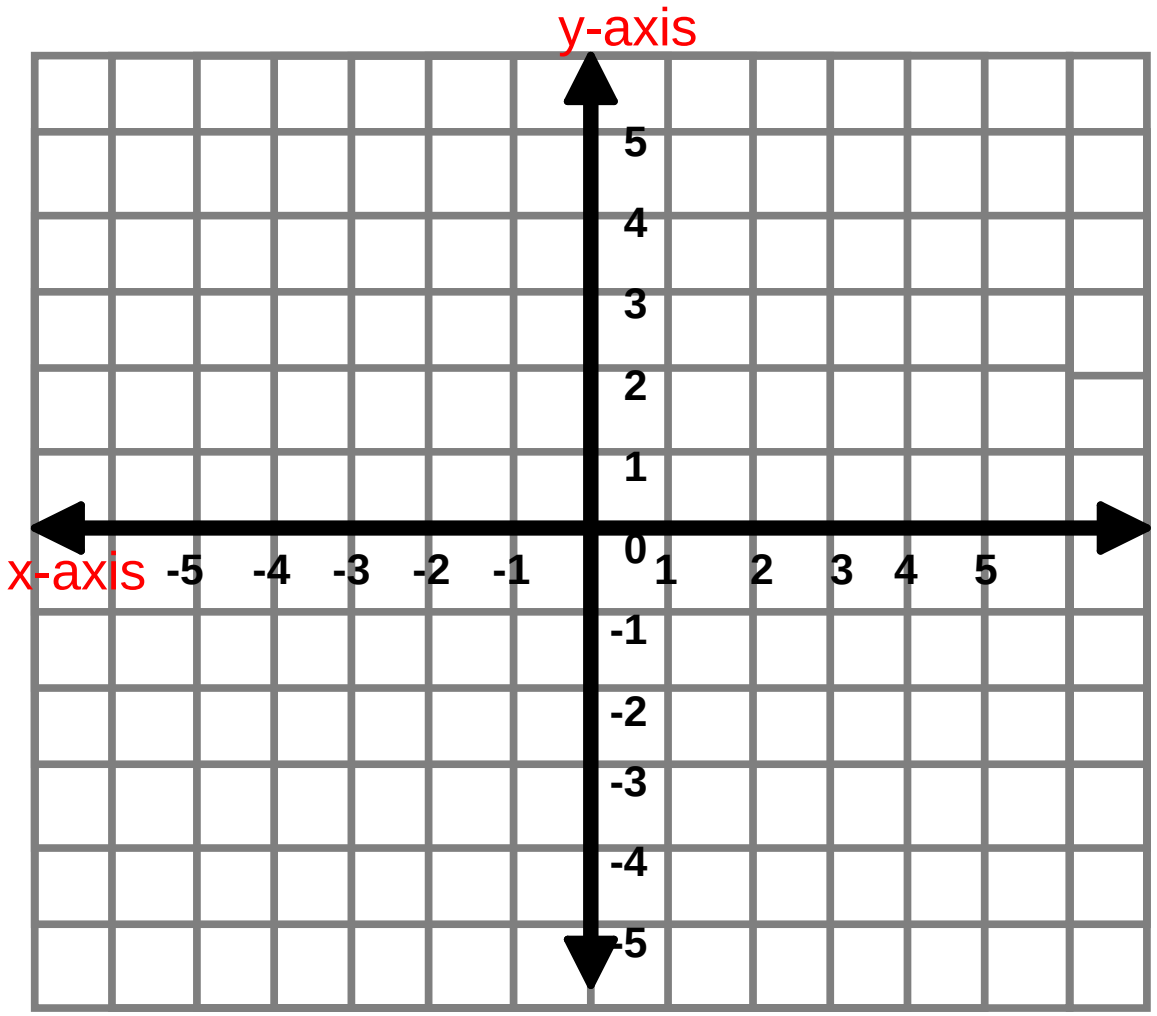
x	y



2) Graph the linear equation.

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

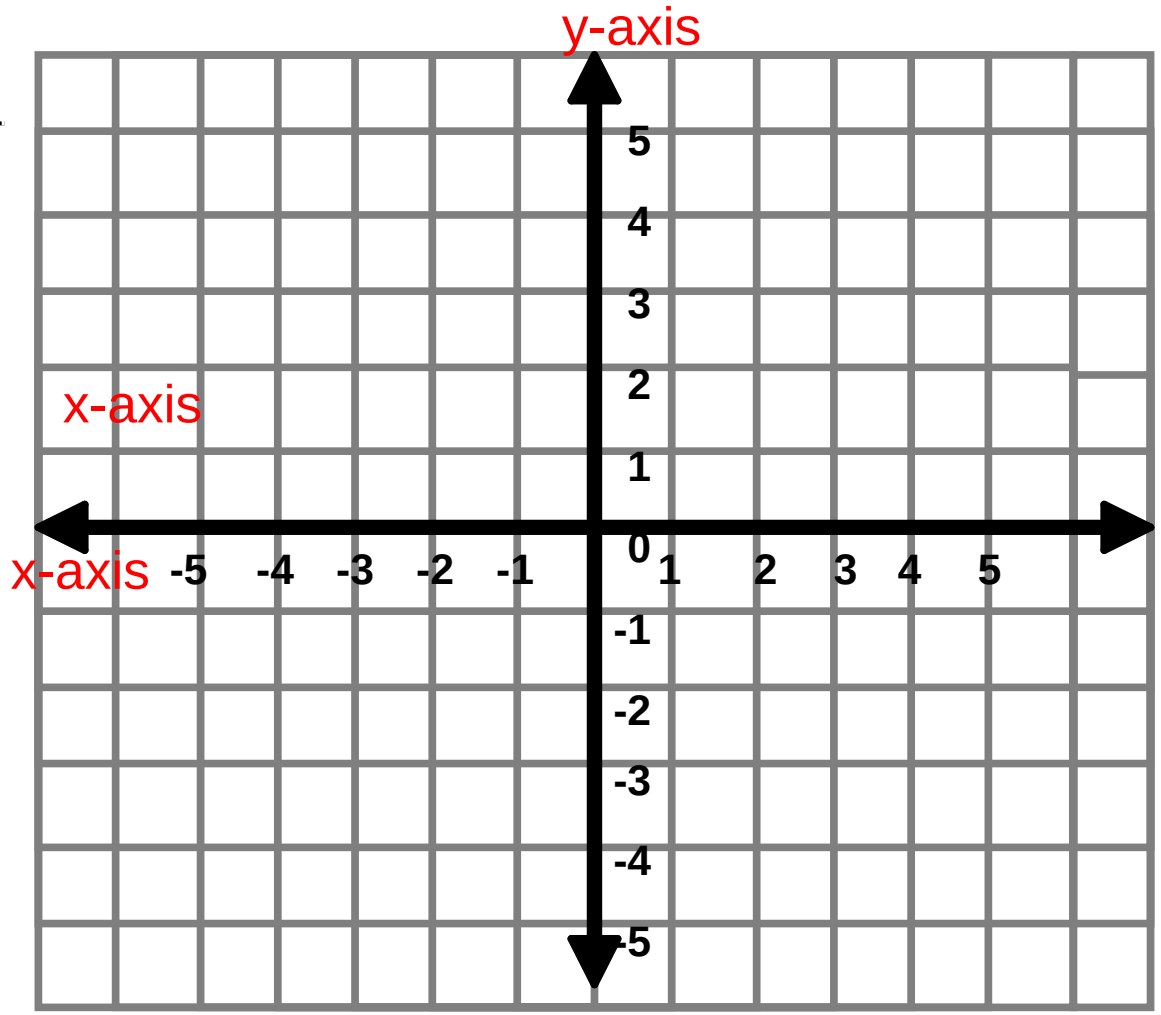
x	y



Using a T-Chart

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

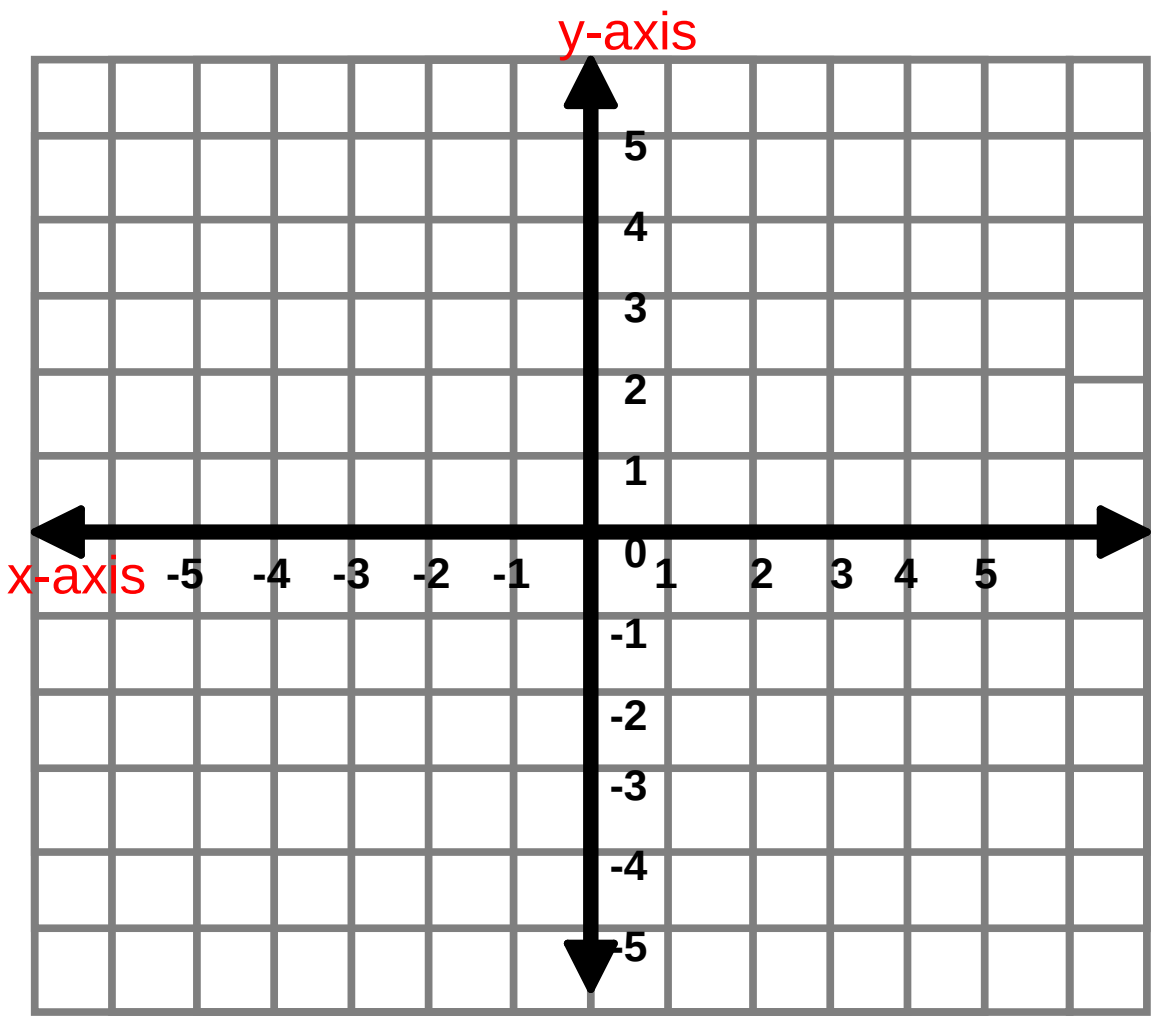
x	y



Graphing Horizontal and Vertical Lines

5) $y = 4$

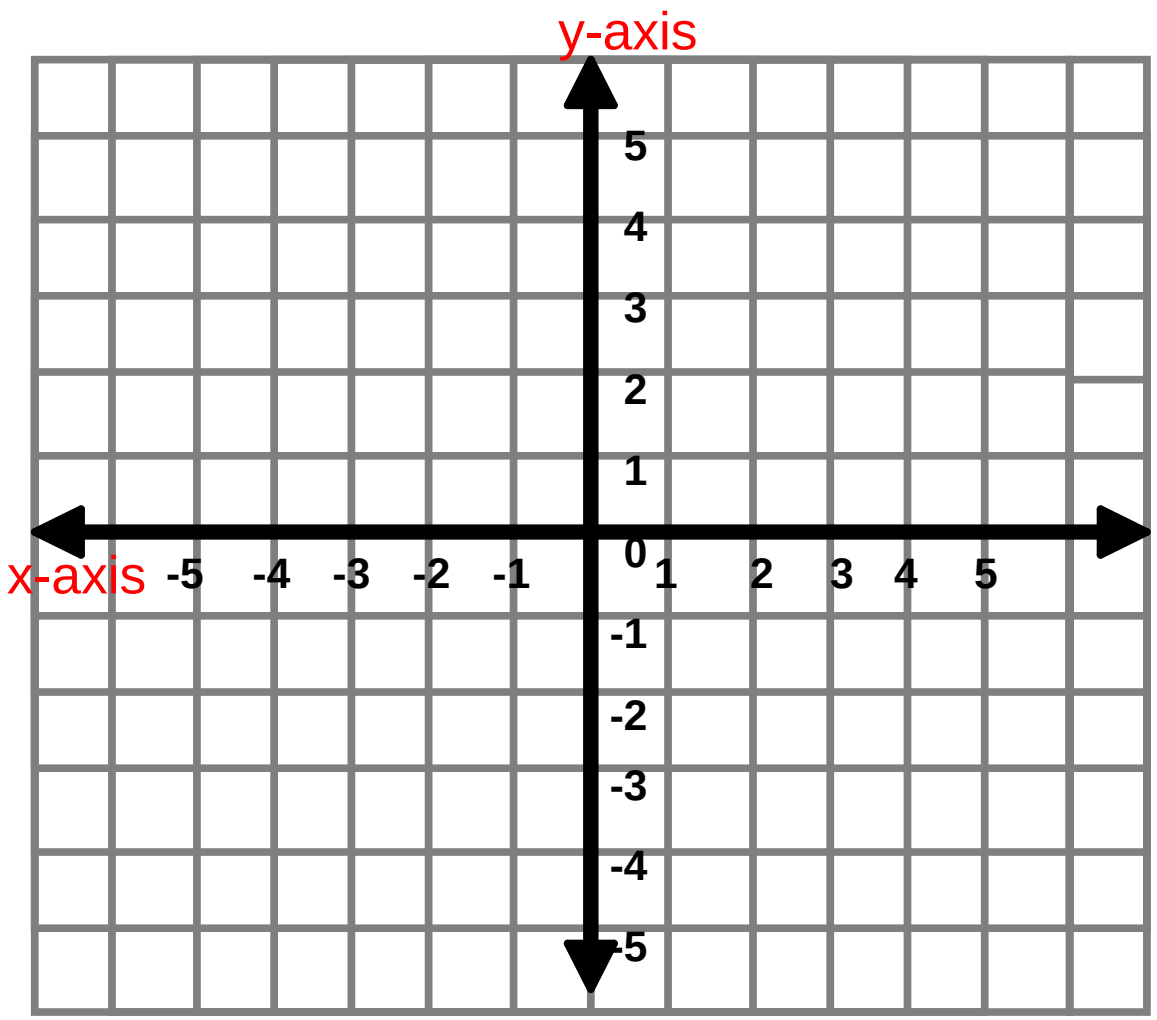
x	y



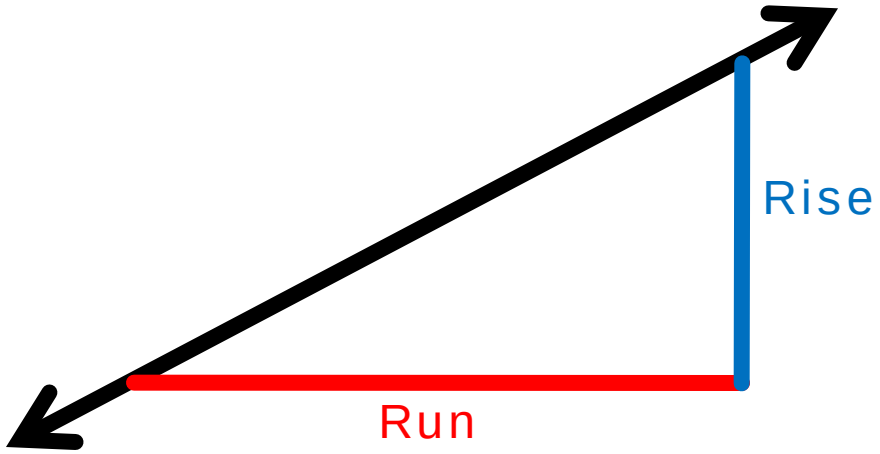
Graphing Horizontal and Vertical Lines

6) $x = 3$

x	y



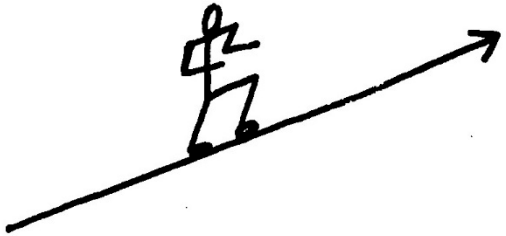
SLOPE OF A LINE



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

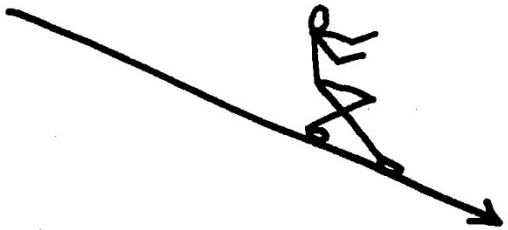
SLOPE OF A LINE

going up



positive slope

going down



negative slope

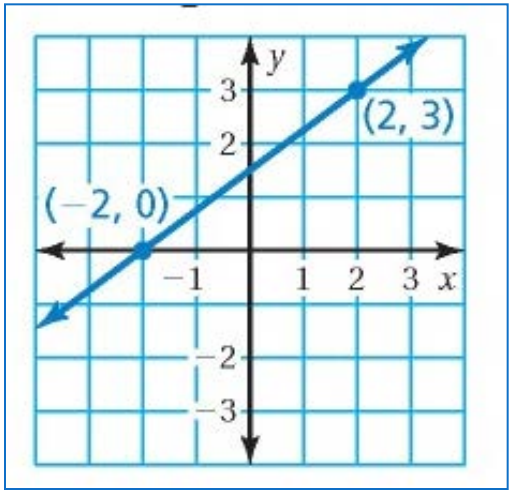
level

0 slope

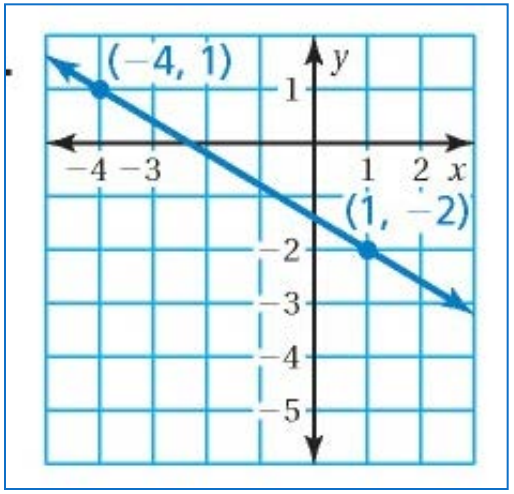
Find the slope of each line.

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

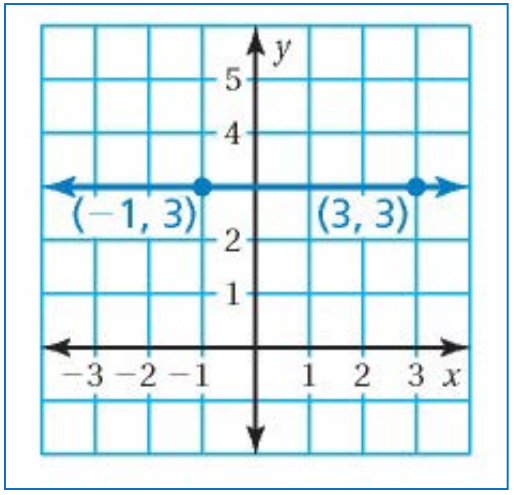
7)



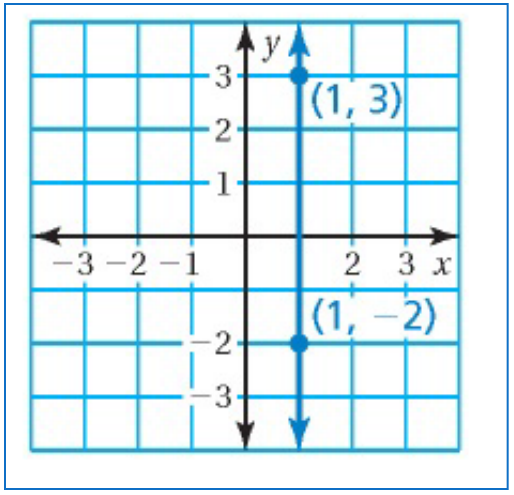
8)



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*** $(-4, -1)$

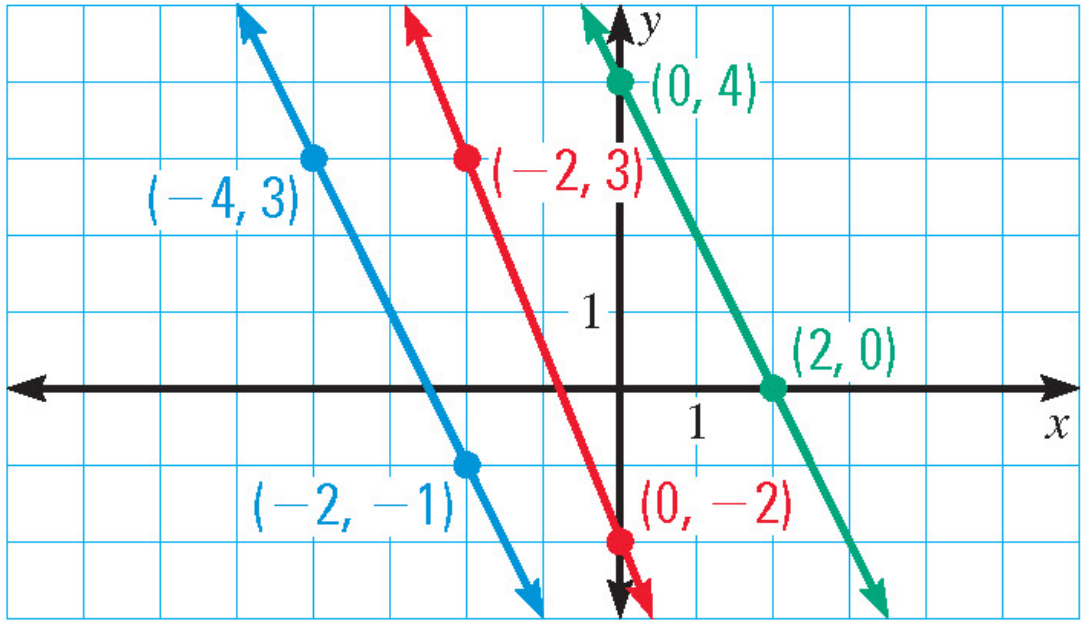
12) $(-2, 5)$ ***and*** $(9, 5)$

Practice

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

Determine which lines are parallel.

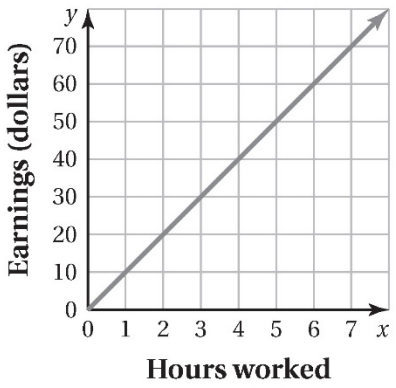
13)



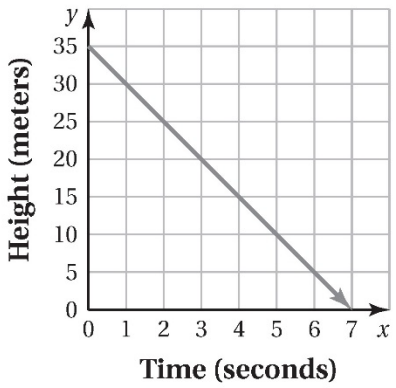
Identify if the following is a proportional relationship.

14)

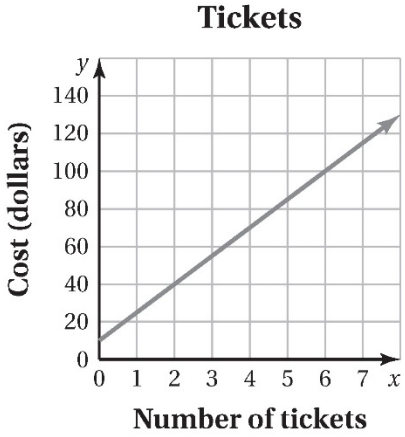
a.



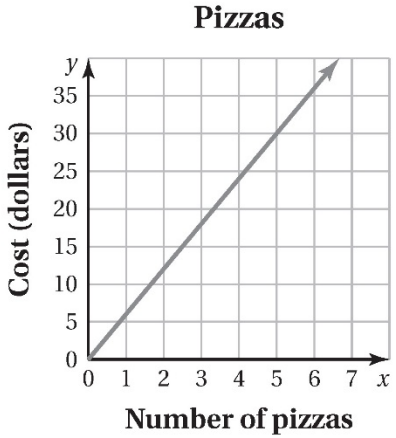
b.



c.



d.



e.

Laps, *x*	1	2	3	4
Time (seconds), *y*	90	200	325	480

f.

Cups of Sugar, *x*	$\frac{1}{2}$	1	$1\frac{1}{2}$	2
Cups of Flour, *y*	1	2	3	4

15) 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.