

Topic: 6.7 Graphing  
Linear Relations

Name: \_\_\_\_\_

Class: Math 8

Date: \_\_\_\_\_

Questions/Main Ideas:

Notes:

Learning Intention:

Construct a graph from the equation of a linear relation and describe the graph.

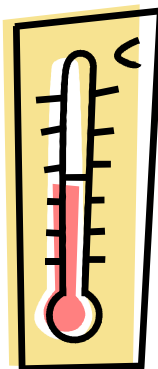
Quick Review:

How do you find a point on a Cartesian graph?

- Each point has an x and y value called coordinates ( x, y )
- The x point goes right or left like a number line



- The y point goes up or down like a thermometer.



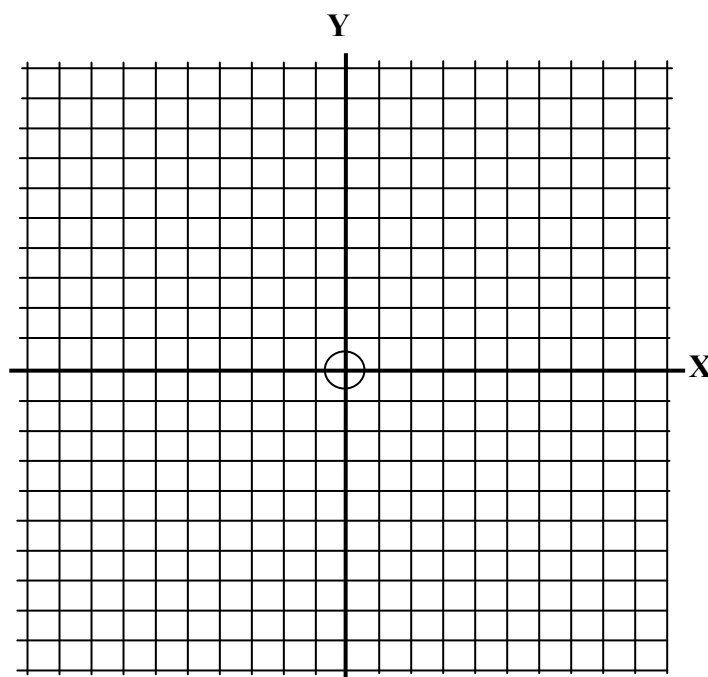
Find and label the  
following point:

(4, 4)

(5, -6)

(-2, -7)

(-8, 3)

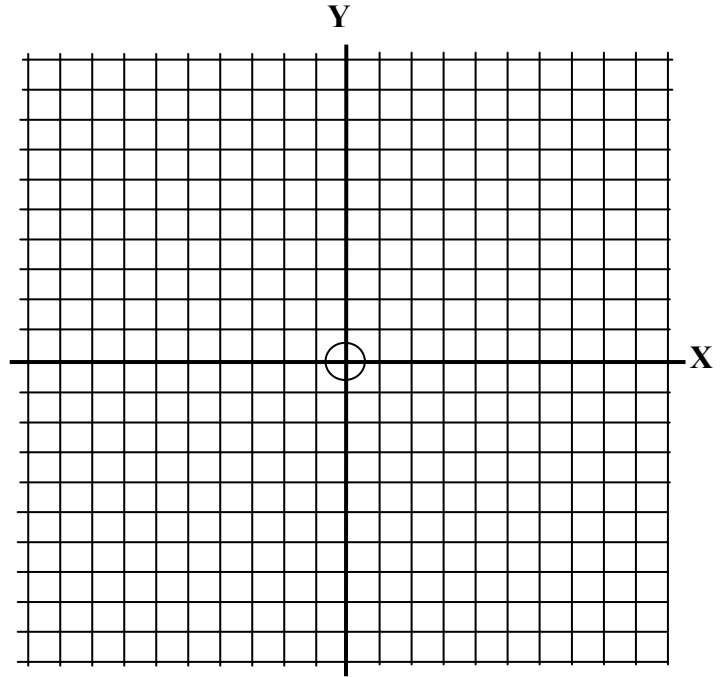


Something challenging

Given each equation complete each table of values and then graph the relation. Is each a linear relation?

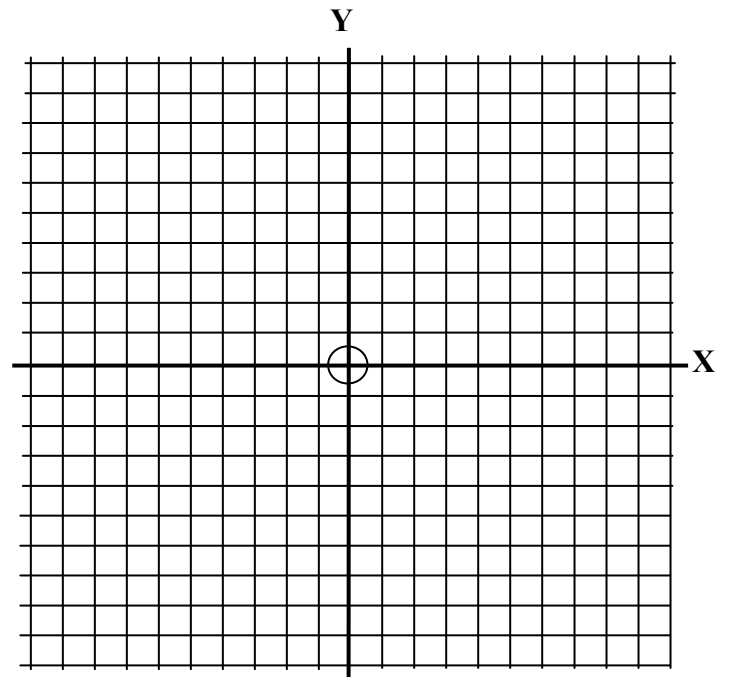
$$y = 2x - 1$$

$x$	$y$
-4	
-2	
0	
2	
4	



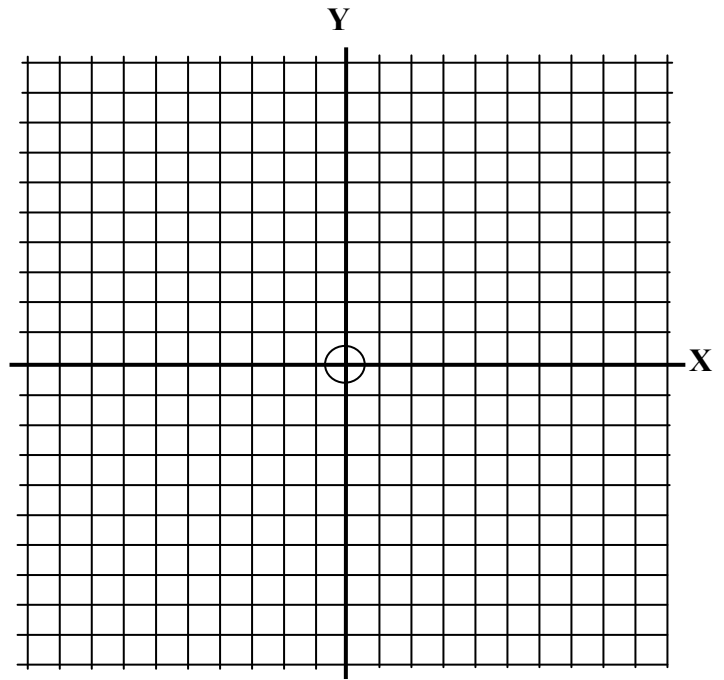
$$y = -4x - 2$$

$x$	$y$
-2	
-1	
0	
1	
2	



$$y = 6 - 2x$$

$x$	$y$
-2	
0	
2	
4	
6	

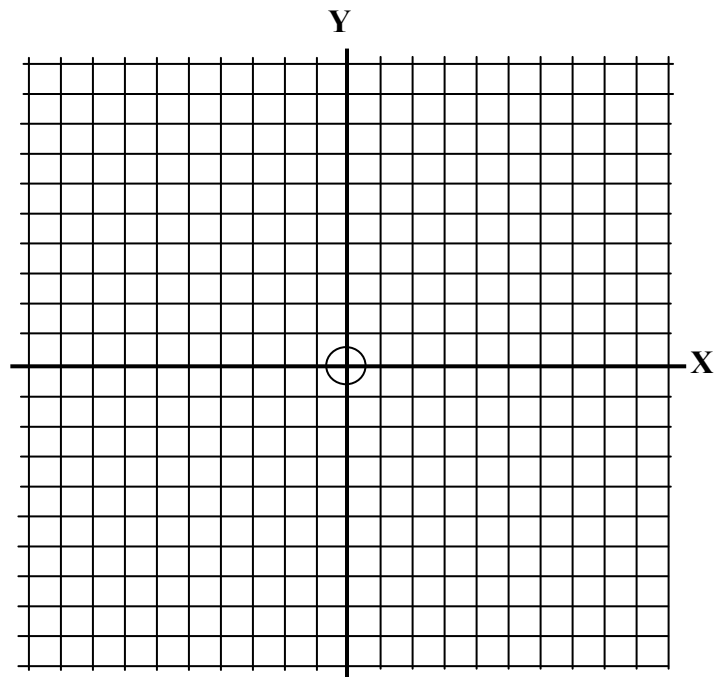


Problem Solving:

Sylvia works at a garden nursery. She is paid \$6 for every tray of tomatoes she plants. Let  $n$  represent the number of trays she plants. Let  $p$  represent her pay in dollars. The equation for her pay is  $p = 6n$

Create a table of values and then graph it. Describe the relationship between  $n$  and  $p$ .

$n(x)$	$p(y)$



Relationship:

Next Step:

p 363 # 4, 5, 7, 11, 13