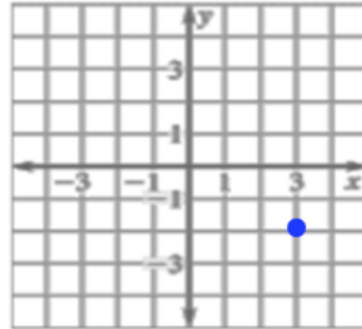


**1.6/1.7/4.1-4.3 Quiz**  
**Study Guide**

**4.1: Plot Points in the Coordinate Plane**

- Identify/graph ordered pairs
- Identify the 4 quadrants

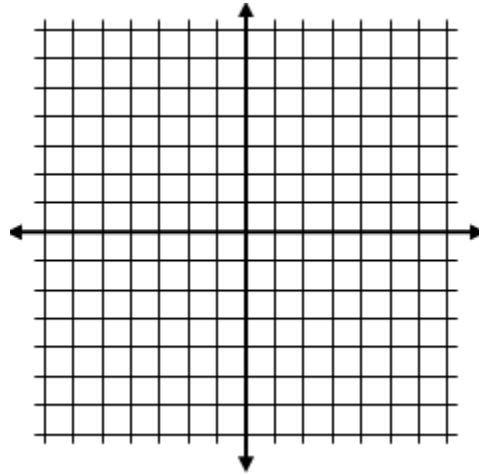
**Ex:** Write the coordinates of point graphed and identify the quadrant it lies in.



**4.2: Graph Linear Equations**

- Be able to graph an equation using a table (choose appropriate values for  $x$ )

**Ex:** Graph  $2x - 4y = 8$



- Be able to identify domain and range of a function

**Ex:** You are transferring photos from your digital camera to a CD. Each photo on the camera takes up 2 megabytes of space. The number  $p$  photos that will fit onto a CD is given by the function  $s = 2p$  where  $s$  is the amount of space on the CD. One CD can store up to 700 megabytes of data. Identify the domain and range of the function.

**Domain:**

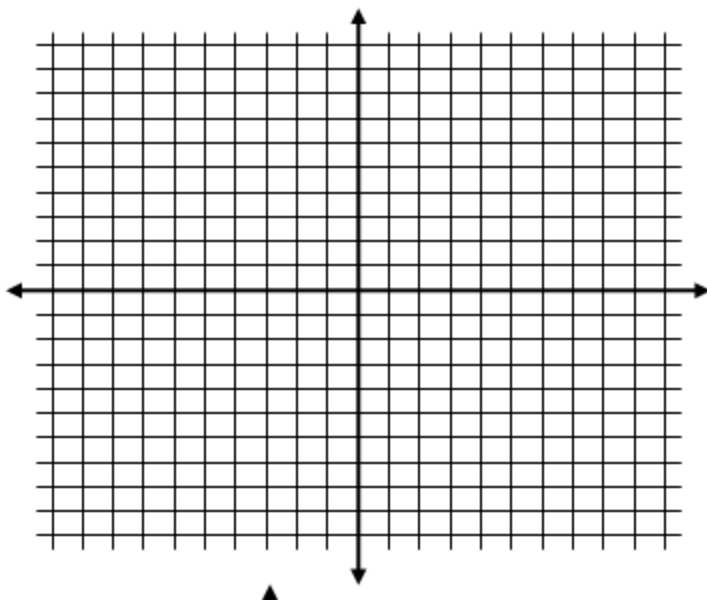
**Range:**

### 4.3: Graph Linear Functions Using $x$ and $y$ intercepts

- Find  $x$  and  $y$  intercepts from an equation
- Identify  $x$  and  $y$  intercepts from a graph
- Interpret the meaning of  $x$  and  $y$  intercepts as they apply to real-world problems

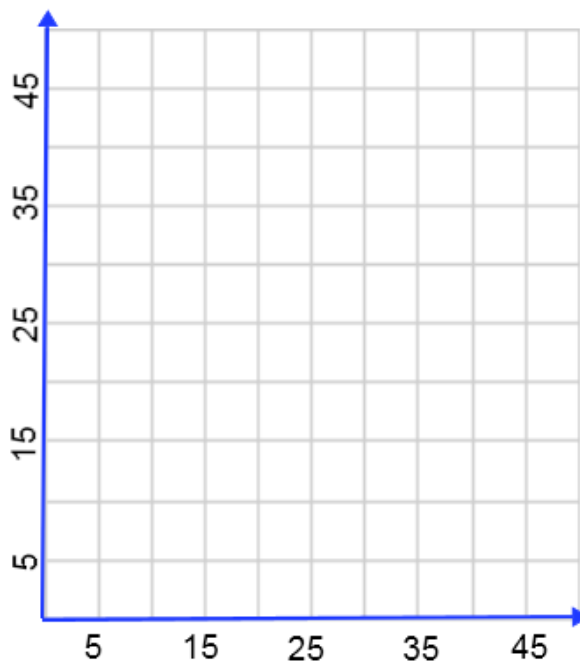
**Ex:** Find the  $x$  and  $y$  intercepts of the equation  $0.2y - 0.3x = 0.6$

**Ex:** Graph  $4x - 2y = -16$  using intercepts.



**Ex:** You earn \$20 an hour mowing lawns and \$10 an hour washing windows. You want to make \$500 in one week.

- Write an equation to represent the situation
- Graph the equation using  $x$  and  $y$  intercepts.
- What do the intercepts mean in this situation?
- What are three possible numbers of hours you can work at each job?
- If you work 30 hours washing windows, how many hours do you have to work mowing lawns?
- Identify the domain and range.



## 1.6: Functions as Rules and Tables

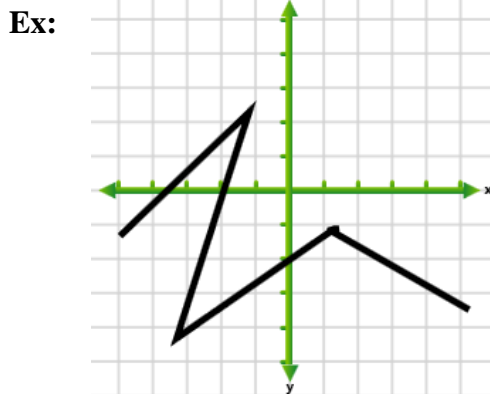
- Be able to identify an input output relationship as a function or not and explain why.

**Ex:**

$x$	$y$
3	1
2	1
1	1
0	1

**Ex:**

$x$	5	7	5	14
$y$	2	6	9	11



- Be able to write a rule for a function given a table or graph.

**Ex:**

$x$	$y$
-10	7
-5	5
0	3
5	1
10	-1