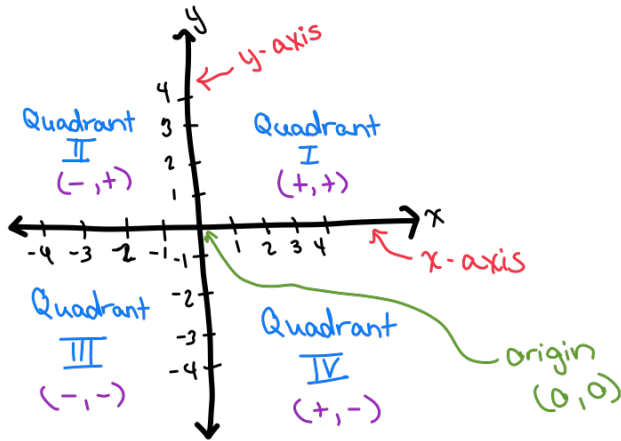


Intro to College Math: Chapter 3.1  
Graphing Ordered Pairs

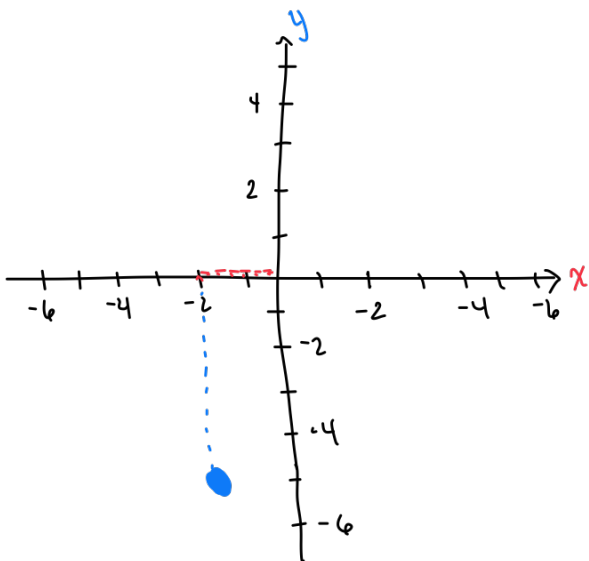
- \* Ordered pair — pair of numbers enclosed in parenthesis and separated by a comma.
- \* X- coordinate — first number in the ordered pair.
- \* Y-coordinate — 2nd number in the ordered pair.
- \* Rectangular coordinate system:



1. Graph the ordered pair.  $(-2, -5)$

$$\begin{matrix} (-2, -5) \\ \uparrow \quad \uparrow \\ x \quad y \end{matrix}$$

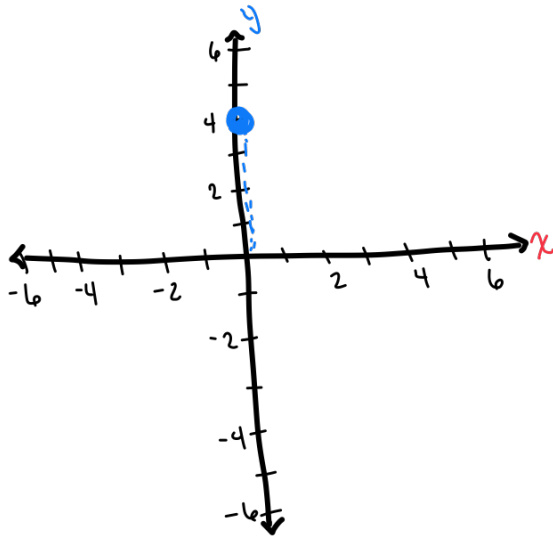
$(-2, -5)$   
\* tells you to go left (if negative)  
+ right if positive  
\* tells you to go up (if positive)  
+ down (if negative)



- \* Starting at the center, go left or right the amount of the 1<sup>st</sup> number.
- \* From there, go up or down the amount of the 2<sup>nd</sup> number.
- \* Place a point there.

2. Graph the ordered pair. (0,4)

(0,4)  
↑ x  
↑ y



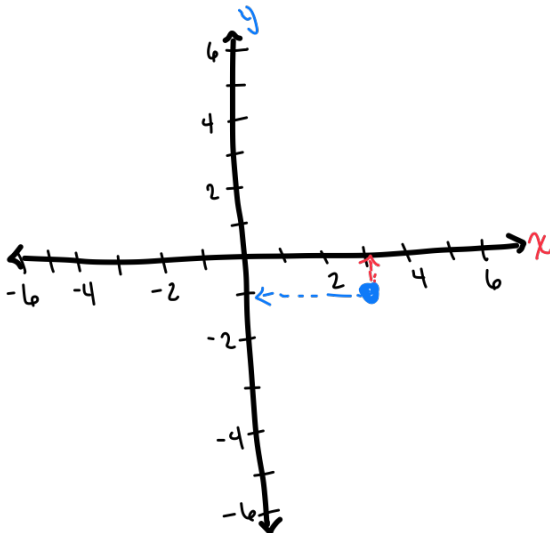
(0,4)

\* tells you to go left (if negative)  
+ right if positive

\* tells you to go up (if positive)  
+ down (if negative)

- \* Starting at the center, go left or right the amount of the 1<sup>st</sup> number.
- \* From there, go up or down the amount of the 2<sup>nd</sup> number.
- \* Place a point there.

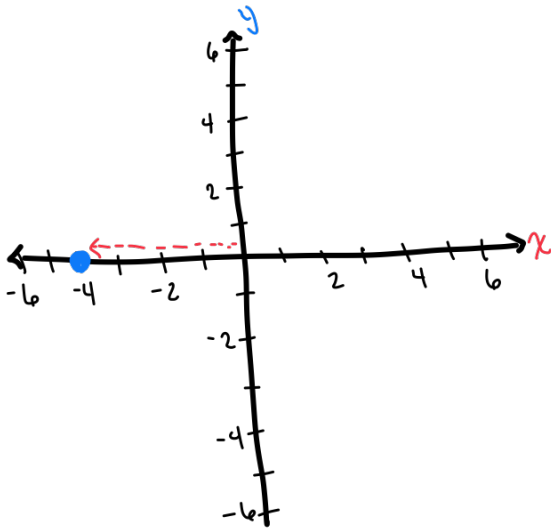
3. Give the coordinates of the point in the figure.



(3, -1)

- \* Find the point, and see what number on the x-axis is associated with that point.
  - This will be 1<sup>st</sup> number
- \* See what number on y-axis is associated with that point.
  - This will be 2<sup>nd</sup> number.

4. Give the coordinates of the point in the figure.



$(-4, 0)$

\* Find the point, and see what number on the x-axis is associated with that point.

- This will be 1<sup>st</sup> number

\* See what number on y-axis is associated with that point.

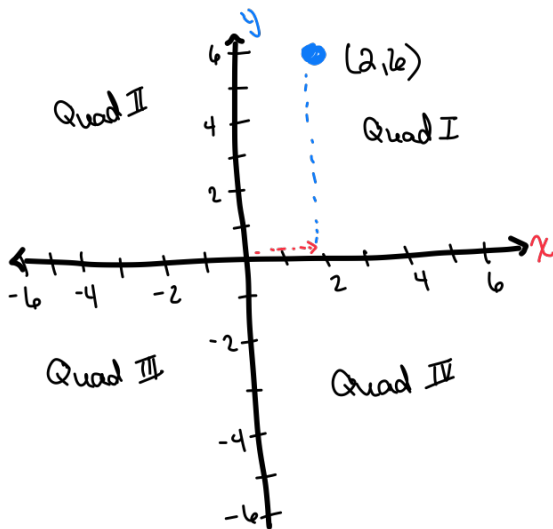
- This will be 2<sup>nd</sup> number.

\* Here, I went to -4 (1<sup>st</sup> number) & then I didn't go up or down, so 0 (2<sup>nd</sup> number).

5. Identify the quadrant the point (2,6) is in.

$(2, 6)$   
↑ x    ↑ y

Quadrant I



\* Think about the point on a graph

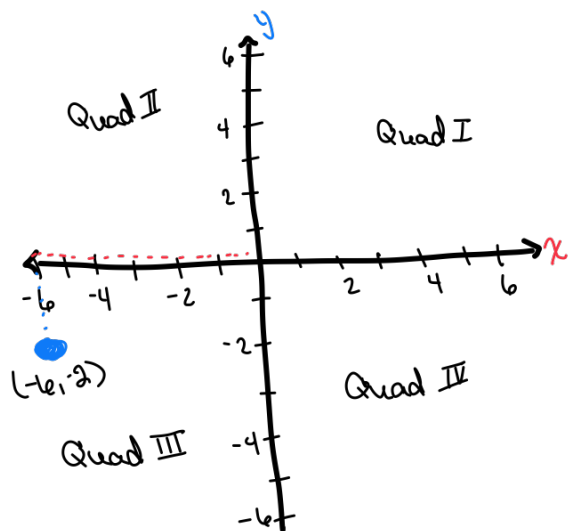
\* Decide which quadrant the point is in.

6. Identify the quadrant the point  $(-6, -2)$  is in.

$$(-6, -2)$$

↑     ↑  
x    y

Quadrant III



\* Think about the point on a graph  
\* Decide which quadrant the point is in.