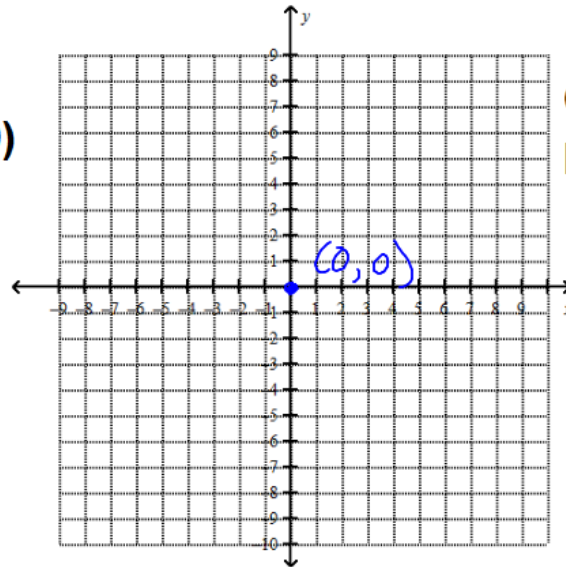


## 7-1 Graphing Ordered Pairs

### Coordinate Plane

origin -  $(0, 0)$   
- where x-axis and y-axis meet



Coordinate - ordered pair.  $(x, y)$

x-axis - left to right

y-axis - up and down

### Key Questions

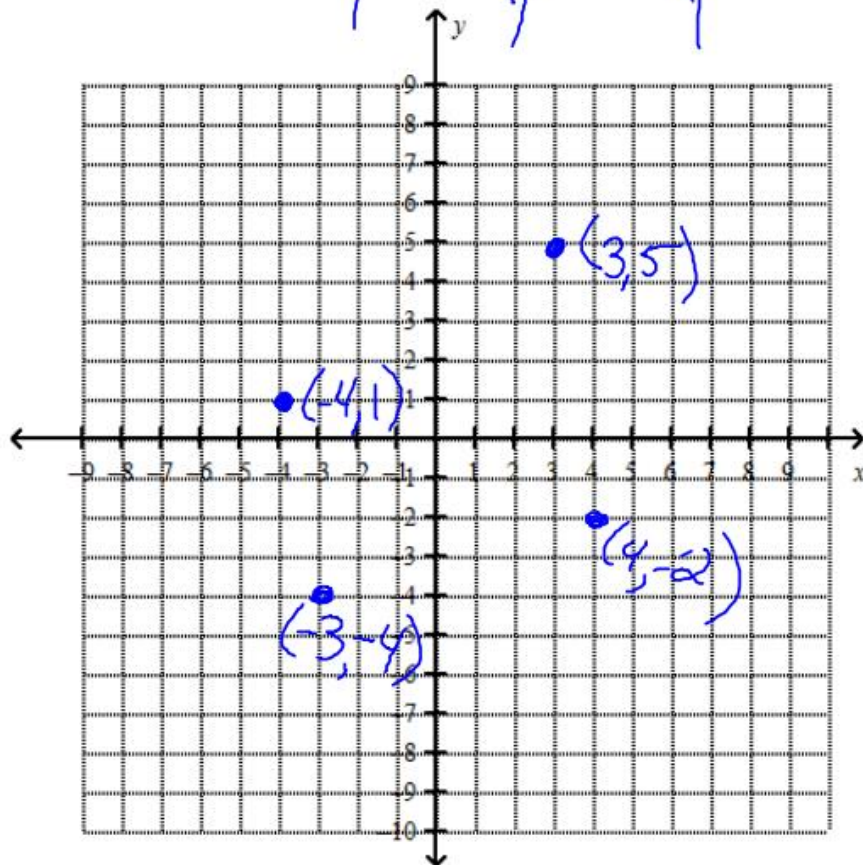
Is the point  $(3, 4)$  the same as the point  $(4, 3)$ ?

No

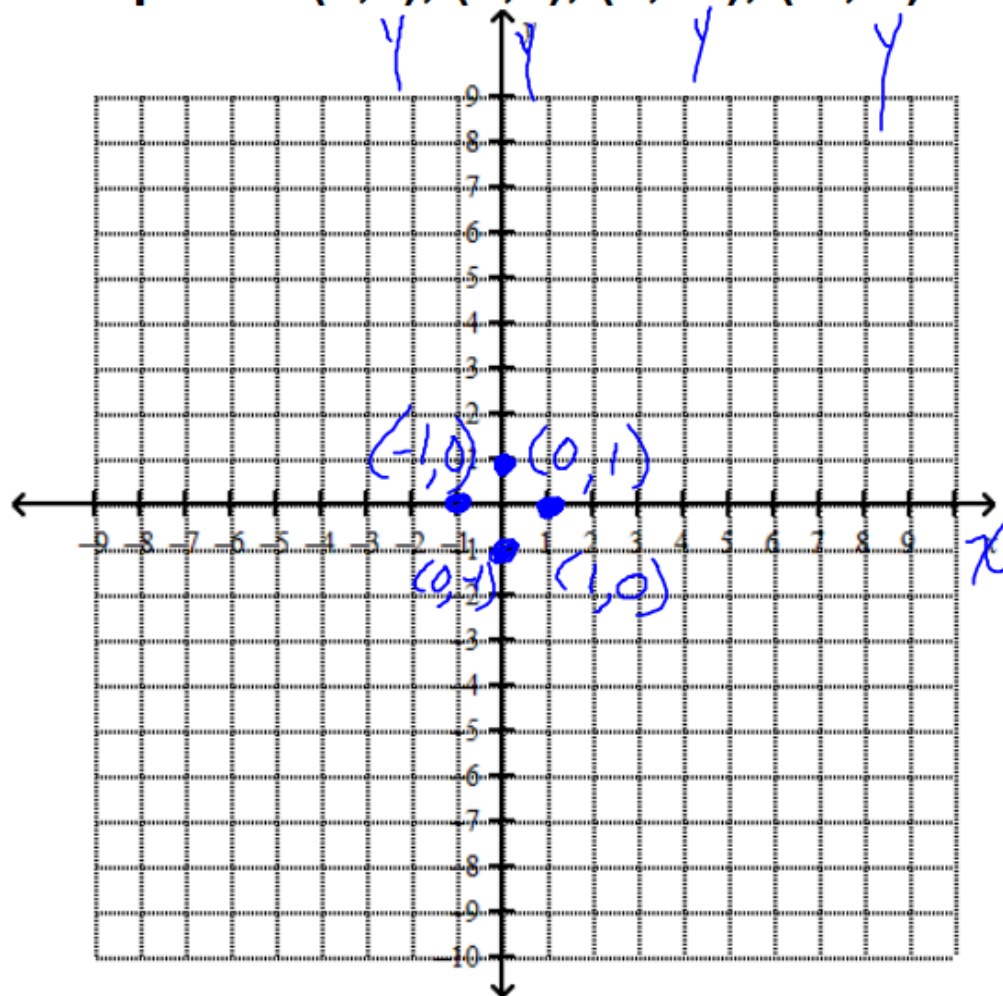
What axis is the point  $(2, 0)$  on?

x-axis

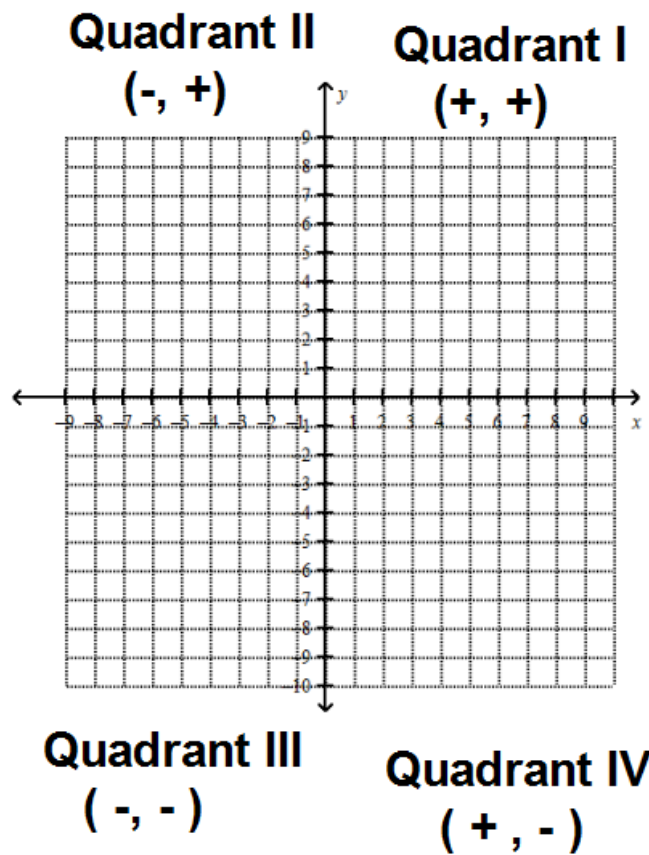
Plot the points  $(3, 5)$ ,  $(-4, 1)$ ,  $(-3, -4)$ , and  $(4, -2)$ .



Plot the points  $(0,1)$ ,  $(1,0)$ ,  $(0,-1)$ ,  $(-1,0)$



Coordinate plane is broken into 4 Quadrants



Key Questions

What is the sign of all x-coordinates in QI?

+

What is the sign of all y-coordinates in QII?

+

In which quadrant are both coordinates negative?

Q III

In which quadrant are the following located?

$(-1, -1)$

$(1, -1)$

$(1, 1)$

$(-1, 1)$

$(-, -)$

$(+, -)$

$(+, +)$

$(-, +)$

$Q_{III}$

$Q_{IV}$

$Q_I$

$Q_{II}$

$Q_3$

$Q_4$

$Q_1$

$Q_2$

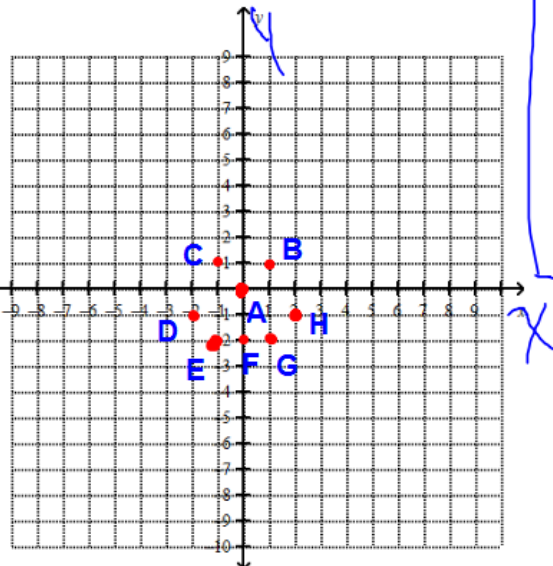
Find the coordinates of the points A, B, C, D, E, F, G, H.

A:  $(0, 0)$

B:  $(1, 1)$

C:  $(-1, 1)$

D:  $(-2, -1)$



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H:  $(2, -1)$

E:  $(-1, -2)$

F:  $(0, -2)$

G:  $(1, -2)$