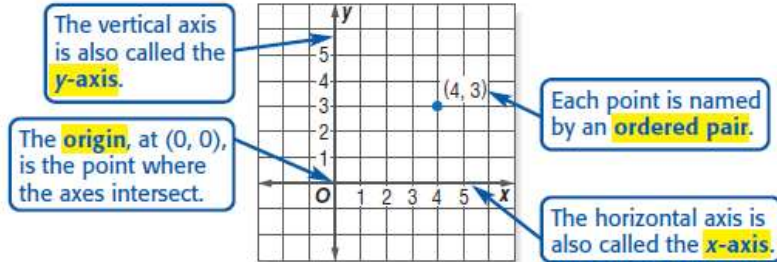


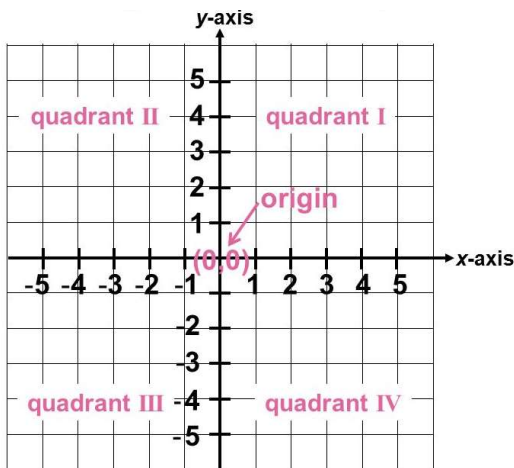
Plotting Points in the Coordinate Plane

The Coordinate Plane:



Each point in the coordinate plane is an ordered pair where it is (location on the x-axis, location on the y-axis). The point is located at the intersection of these two locations.

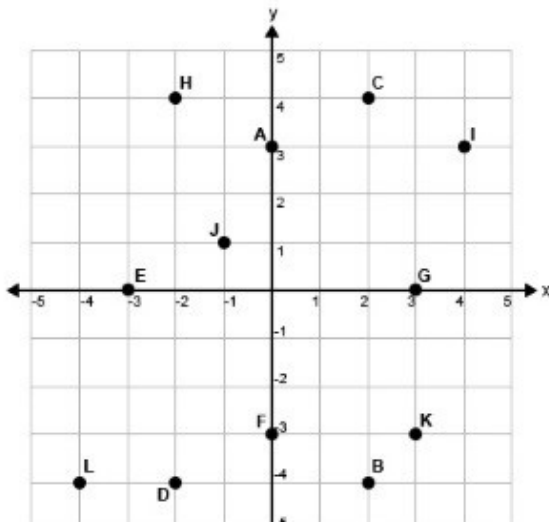
Quadrants in the Coordinate Plane:



Example 1:

Name the ordered pair for each point and the quadrant in which the point lies.

A



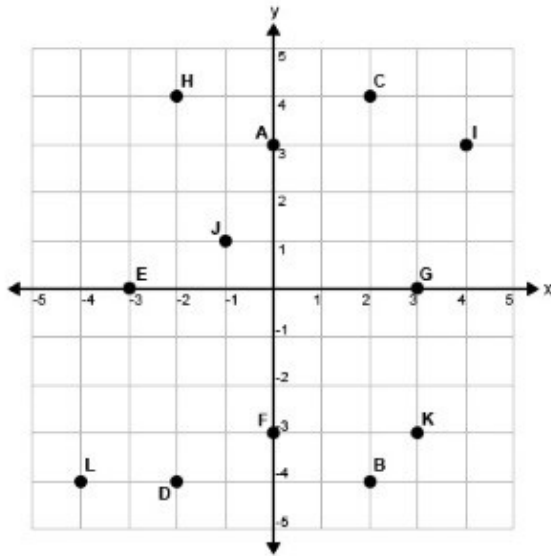
Point A is aligned with 0 on the x-axis and 3 on the y-axis. So, the coordinates of A are $(0, 3)$.
Point A is not in a quadrant. It is on the y-axis.

$A(0, 3)$; on the y-axis

Example 2:

Name the ordered pair for each point and the quadrant in which the point lies.

B



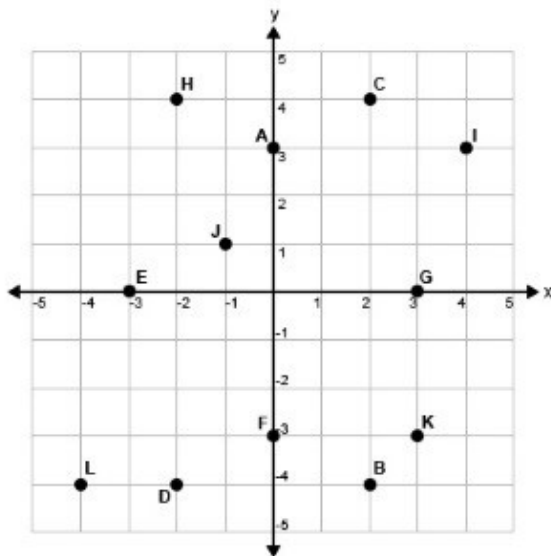
Point B is aligned with 2 on the x-axis and -4 on the y-axis. So, the coordinates of B are $(2, -4)$.
Point B is in quadrant IV.

$B(2, -4)$; Quadrant IV

Example 3:

Name the ordered pair for each point and the quadrant in which the point lies.

C



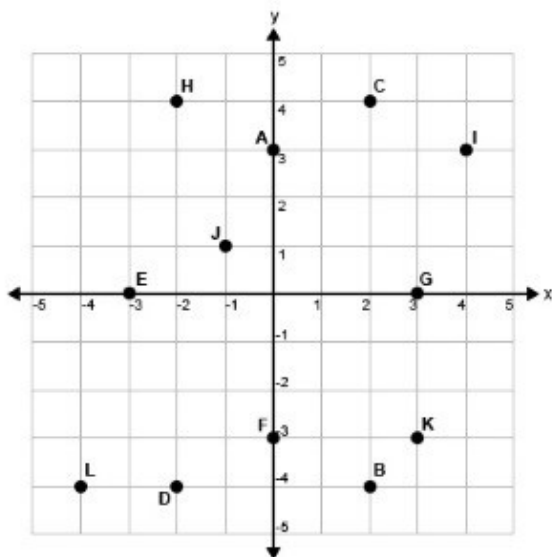
Point C is aligned with 2 on the x-axis and 4 on the y-axis. So, the coordinates of C are $(2, 4)$.
Point C is in quadrant I.

$C(2, 4)$; Quadrant I

Example 4:

Name the ordered pair for each point and the quadrant in which the point lies.

D



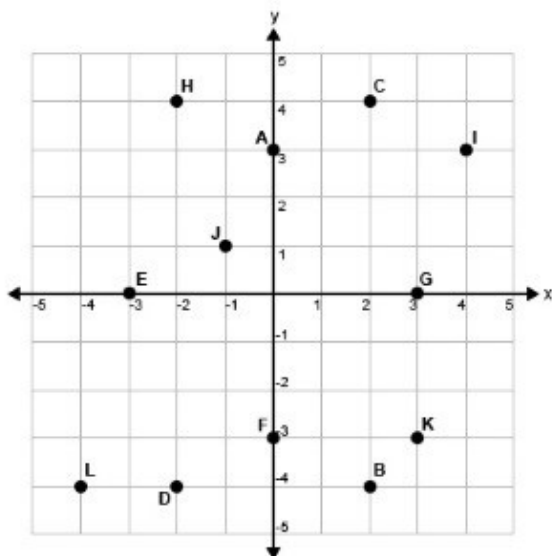
Point D is aligned with -2 on the x-axis and -4 on the y-axis. So, the coordinates of D are $(-2, -4)$. Point D is in quadrant III.

$D(-2, -4)$; Quadrant III

Example 5:

Name the ordered pair for each point and the quadrant in which the point lies.

E



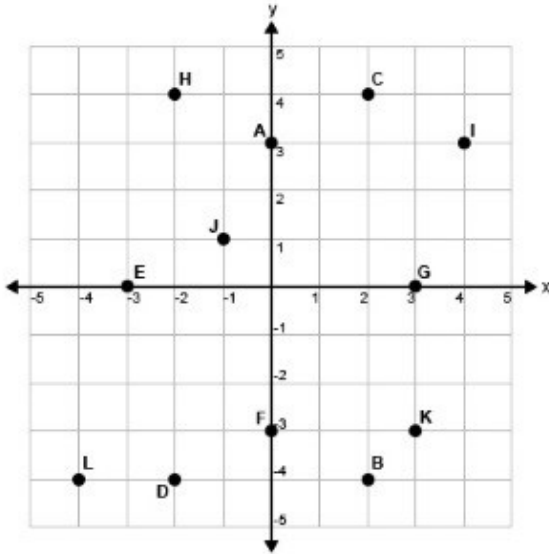
Point E is aligned with -3 on the x-axis and 0 on the y-axis. So, the coordinates of D are $(-3, 0)$.
Point E is not in a quadrant. Point E lies on the x-axis.

$E(-3, 0)$; on the x-axis

Example 6:

Name the ordered pair for each point and the quadrant in which the point lies.

F



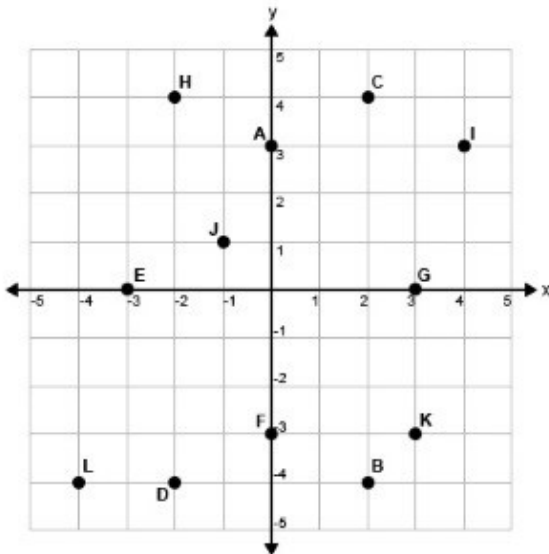
Point F is aligned with 0 on the x-axis and -3 on the y-axis. So, the coordinates of F are $(0, -3)$.
Point F is not in a quadrant. Point F is on the y-axis.

$F(0, -3)$; on the y-axis

Example 7:

Name the ordered pair for each point and the quadrant in which the point lies.

G



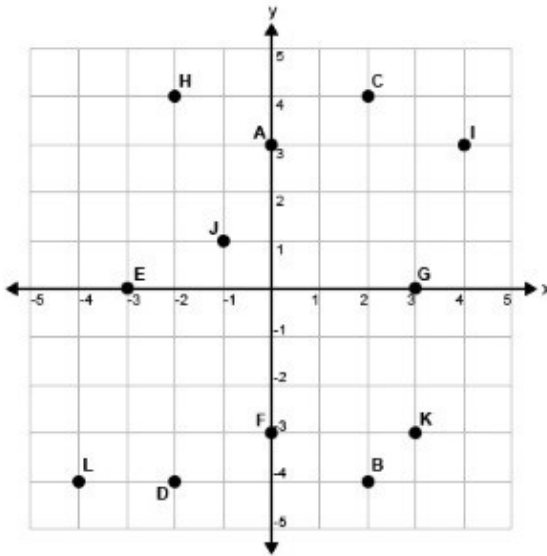
Point G is aligned with 3 on the x-axis and 0 on the y-axis. So, the coordinates of G are $(3, 0)$. Point G is not in a quadrant. Point G lies on the x-axis.

$G(3, 0)$; on the x-axis

Example 8:

Name the ordered pair for each point and the quadrant in which the point lies.

H



Point H is aligned with -2 on the x-axis and 4 on the y-axis. So, the coordinates of H are $(-2, 4)$. Point H is in quadrant II.

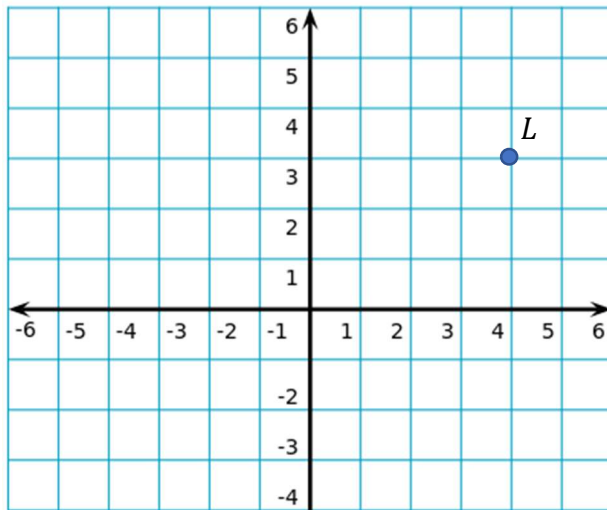
$H(-2, 4)$; Quadrant II

Example 9:

Plot the following points on the coordinate plane.

$L(4, 3)$

This means we need to align L with 4 on the x-axis and 3 on the y-axis.

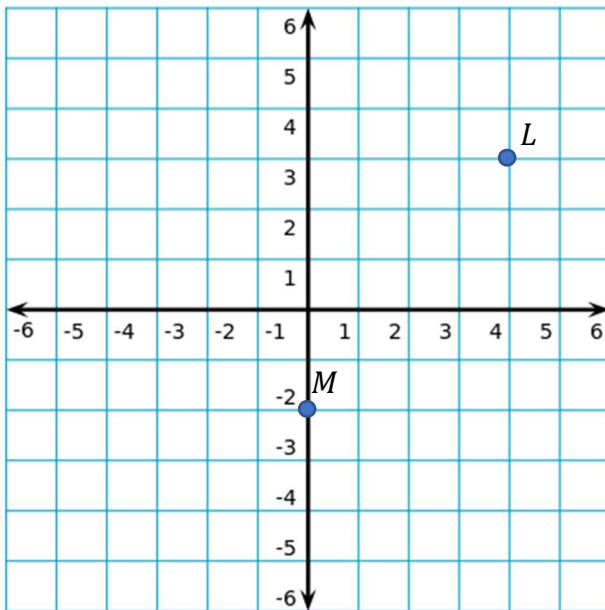


Example 10:

Plot the following points on the coordinate plane.

$$M(0, -2)$$

This means we need to align M with 0 on the x-axis and -2 on the y-axis.

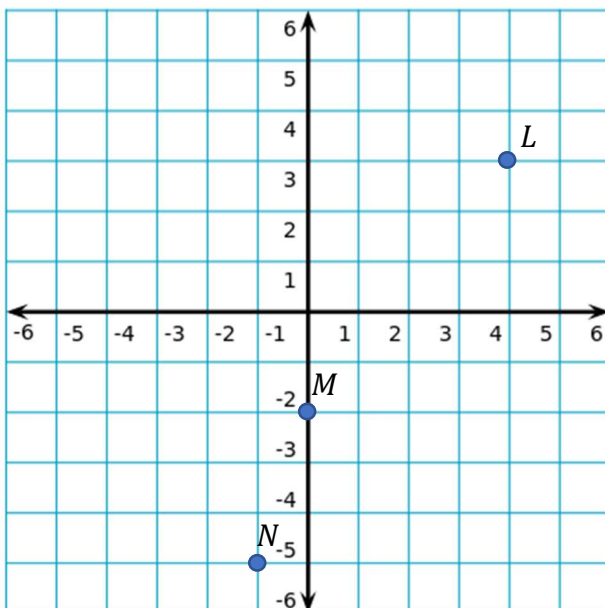


Example 11:

Plot the following points on the coordinate plane.

$$N(-1, -5)$$

This means we need to align N with -1 on the x-axis and -5 on the y-axis.

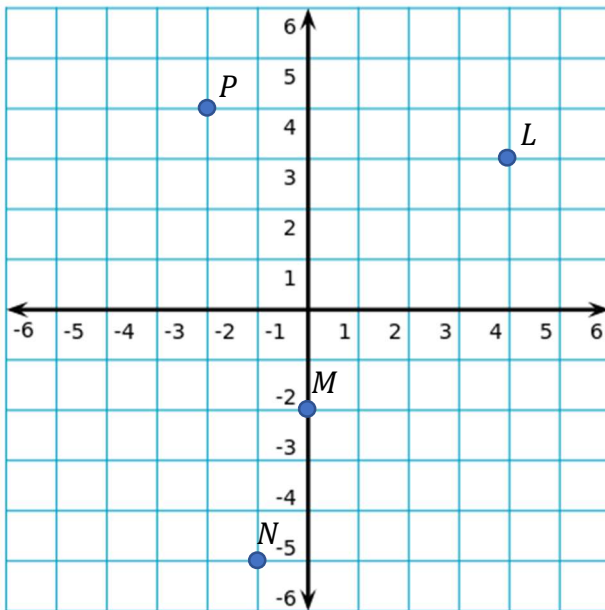


Example 12:

Plot the following points on the coordinate plane.

$$P(-2, 4)$$

This means we need to align P with -2 on the x-axis and 4 on the y-axis.

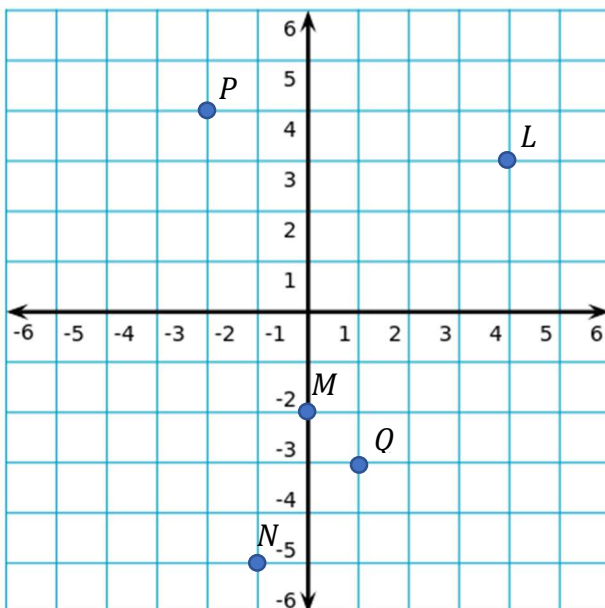


Example 13:

Plot the following points on the coordinate plane.

$$Q(3, -1)$$

This means we need to align Q with 1 on the x-axis and -3 on the y-axis.



Example 14:

Plot the following points on the coordinate plane.

$R(4, 0)$

This means we need to align R with 4 on the x-axis and 0 on the y-axis.

