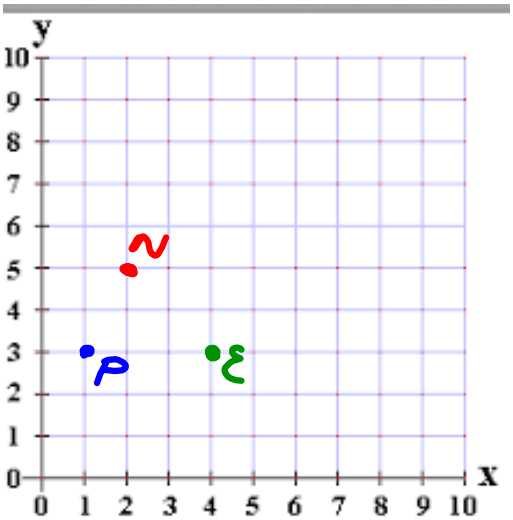
9.7 Plot Points in the Coordinate Plane

In mathematics, the location of any point on a grid can be indicated by an ORDERED PAIR of numbers.

The location of any point on the grid can be indicated by the ordered pair (x, y), where x represents the number of horizontal units from 0 & y represents the number of vertical units from 0.

Use the grid at the right to find the name of the point for each ordered pair:

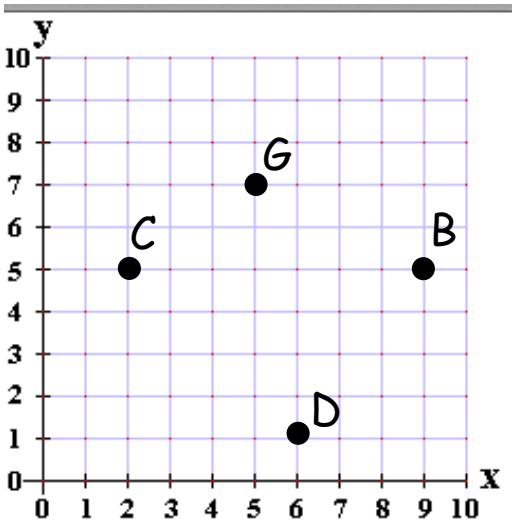


a.) N (2, 5)

b.) E (4, 3)

c.) P (1, 3)

Use the grid at the right to find the ordered pair for each labeled point:



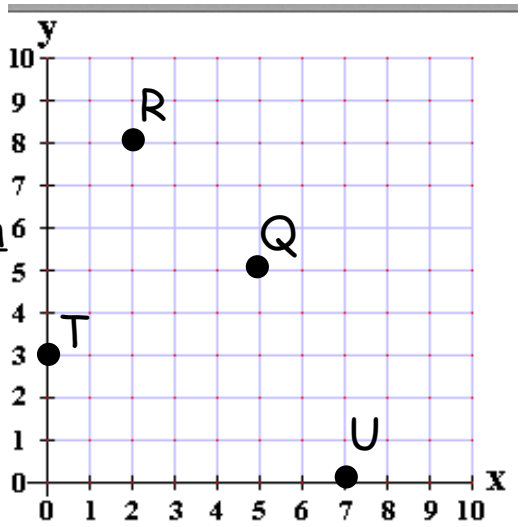
a.) G (5, 7)

b.) D (6, 1)

c.) C (2, 5)

d.) B (9, 5)

Use the grid at the right to find the ordered pair for each labeled point:



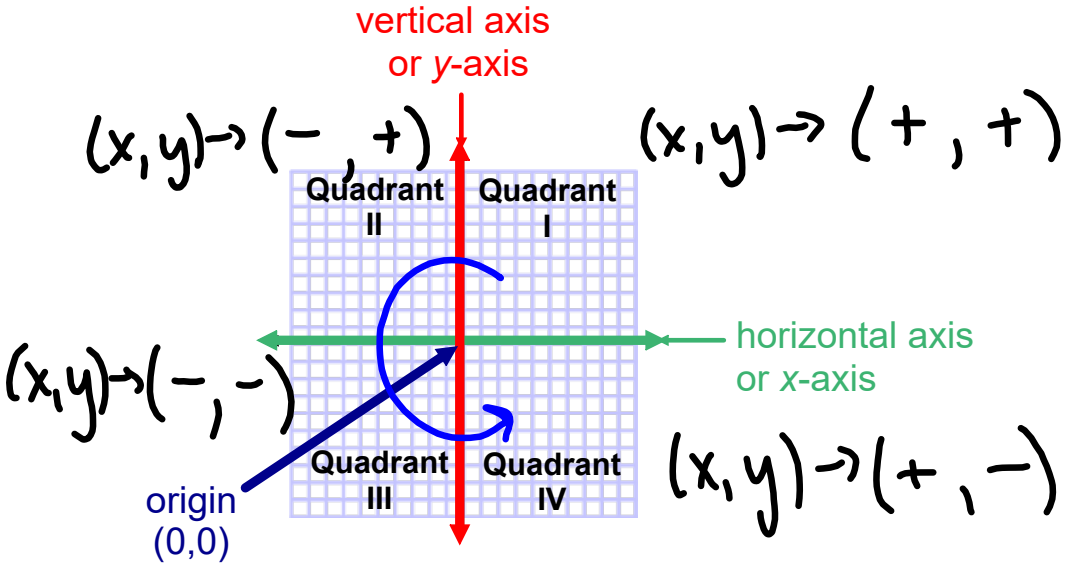
a.) R (2, 8)

b.) Q (5, 5)

c.) T (0, 3)

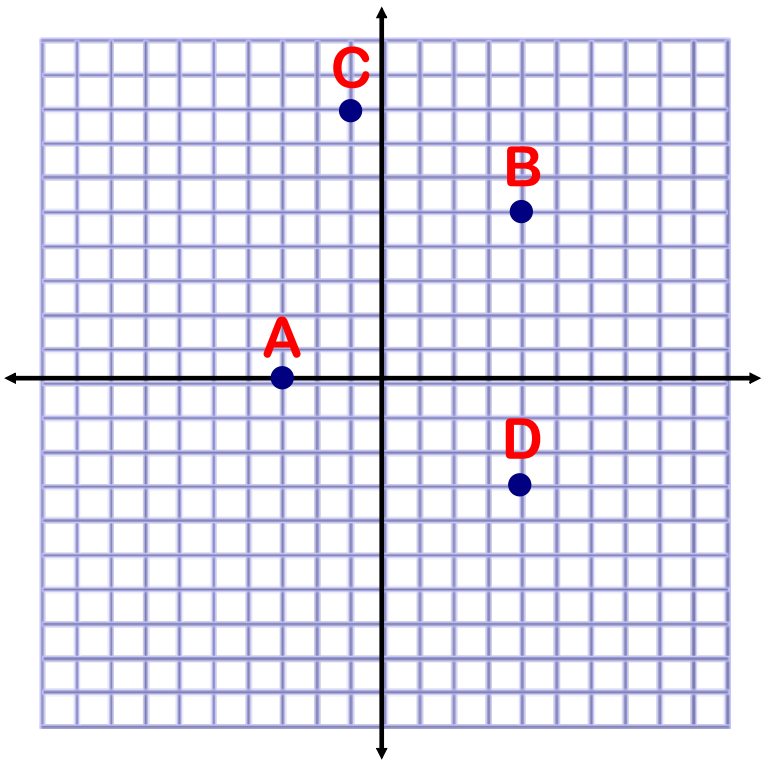
d.) U (7, 0)

THE COORDINATE SYSTEM



Points are written in ordered pairs.
The first number is the x-coordinate, and the second number is the y-coordinate.

Write the ordered pairs that correspond to points A, B, C, and D. Also name the quadrant the point is in.



1. A (−3, 0) not in a quadrant
2. B (4, 5) Q1
3. C (−1, 8) Q2
4. D (4, −3) Q4

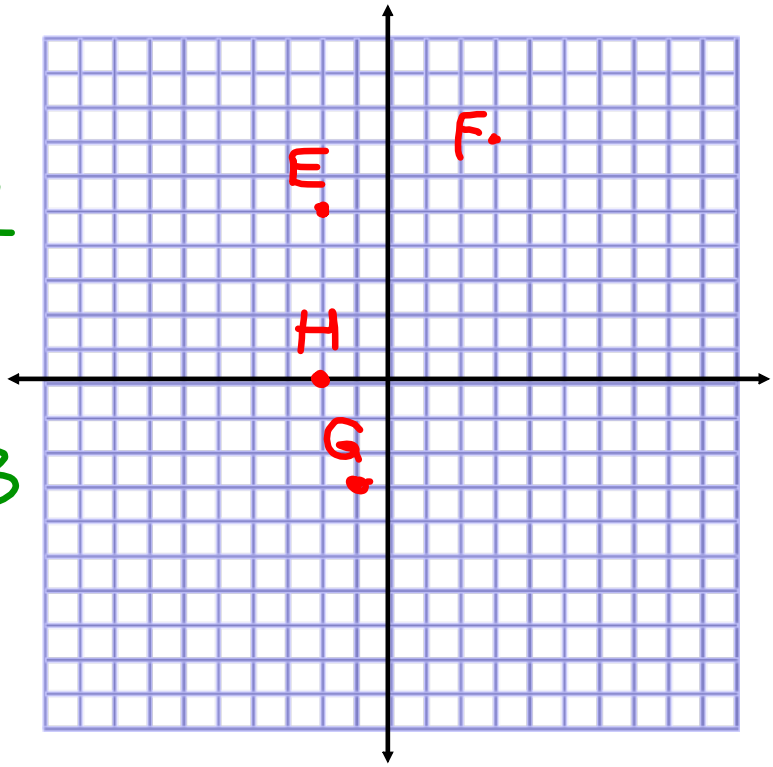
Plot the following points in a coordinate plane. Also name the quadrant the point is in.

5. E (-2, 5) Q2

6. F (3, 7) Q1

7. G (-1, -3) Q3

8. H (-2, 0) none



Plot the following points in a coordinate plane. Also name the quadrant the point is in.

9. J (2.5, 2) Q 1
   $2\frac{1}{2}$

10. K (-1, 1.25)
    $1\frac{1}{4}$ Q2

11. L (1, -0.5) Q4
    $-\frac{1}{2}$

12. M $(-3.5, -1\frac{3}{4})$
    $-3\frac{1}{2}$ Q3