1-1.2-28

EE24BTECH11036 - Krishna Patil

Question :-

In which quadrant or on which axis do each of the points $(-2,4)$, $(3,-1)$, $(-1,0)$, $(1,2)$ and $(-3,-5)$ lie ? Verify your answer by locating them on the Cartesian plane.

Solution :-

To determine if point lies in a quadrant , we look at the the signs of the x and y coordinates .If

1) x coordinate > 0 and y coordinate > 0 then the point lies in first quadrant.
2) x coordinate < 0 and y coordinate > 0 then the point lies in second quadrant.
3) x coordinate < 0 and y coordinate < 0 then the point lies in third quadrant.
4) x coordinate > 0 and y coordinate < 0 then the point lies in fourth quadrant.
5) y coordinate = 0 then the point lies on x axis.
6) x coordinate = 0 then the point lies on the y axis.

1) (-2,4) lies in second quadrant.
2) (3,-1) lies in fourth quadrant.
3) (-1,0) lies on the x axis.
4) (1,2) lies in the first quadrant.
5) (-3,-5) lies in the third quadrant.

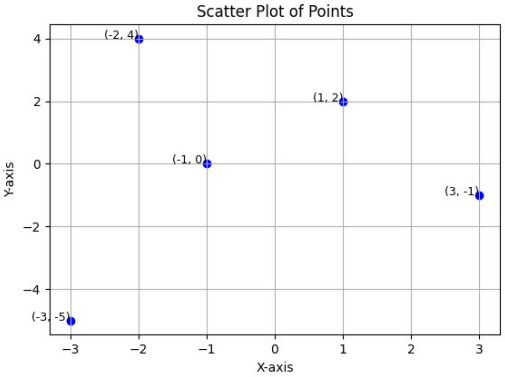

Fig. 5.1: X-Y plot