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.
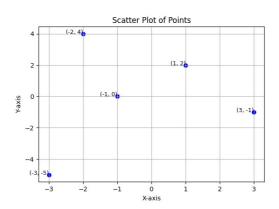
Solution :-

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

sign of x coordinate	sign of y coordinate	quadrant or axis
+	+	first
−	+	second
−	−	third
+	−	fourth
any	0	x-axis
0	any	y-axis

TABLE 0: Quadrant Decider

1) **A** = (-2,4) lies in second quadrant.
2) **B** = (3,-1) lies in fourth quadrant.
3) **C** = (-1,0) lies on the x axis.
4) **D** = (1,2) lies in the first quadrant.
5) **E** = (-3,-5) lies in the third quadrant.