EE24BTECH11036 - Krishna Patil

Ouestion:

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.

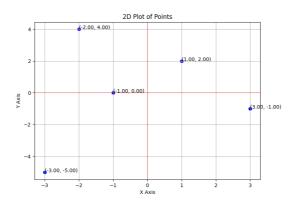
Solution:

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) $\mathbf{B} = (3,-1)$ lies in fourth quadrant.
- 3) C = (-1,0) lies on the x axis.
- 4) $\mathbf{D} = (1,2)$ lies in the first quadrant.
- 5) $\mathbf{E} = (-3, -5)$ lies in the third quadrant.



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