

# 1-1.2-28

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## 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.

