

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 as shown in the table 0.

Sign of X coordinate	Sign of Y coordinate	Quadrant or Axis
+	+	Q_1
-	+	Q_2
-	-	Q_3
+	-	Q_4
any	0	x-axis
0	any	y-axis

TABLE 0: Quadrant Decider

So referring to Fig. 0.1 , the table 0 gives the answers.

Point	Value	Quadrant or Axis
A	$(-2, 4)$	Q_2
B	$(3, -1)$	Q_4
C	$(-1, 0)$	x-axis
D	$(1, 2)$	Q_1
E	$(-3, -5)$	Q_3

TABLE 0: Answers

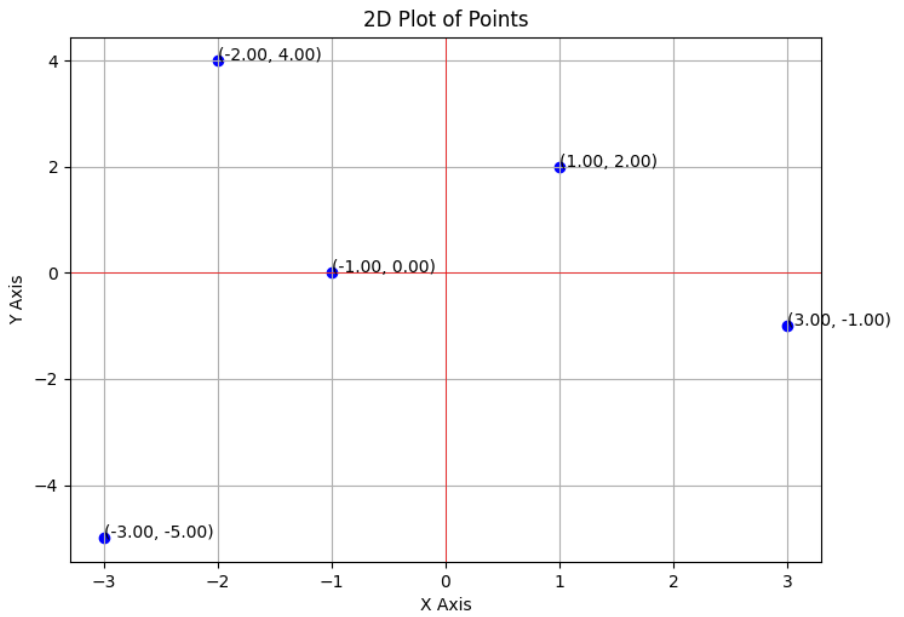


Fig. 0.1: X-Y plot