

# 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 Decoder

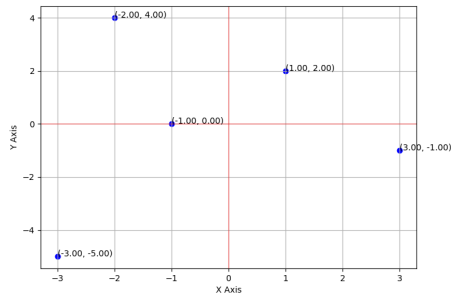


Fig. 0.1: X-Y plot

So ,By 0.1 ,the table 0 gives the answers.

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

TABLE 0: Answers