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:

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

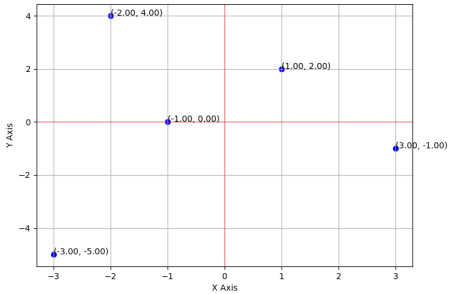

Fig. 0.1: X-Y plot

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

Point	Vector	Quadrant or Axis
A	$\begin{pmatrix}-2\\4\end{pmatrix}$	Q_2
B	$\begin{pmatrix}3\\-1\end{pmatrix}$	Q_4
C	$\begin{pmatrix}-1\\0\end{pmatrix}$	x-axis
D	$\begin{pmatrix}1\\2\end{pmatrix}$	Q_1
E	$\begin{pmatrix}-3\\-5\end{pmatrix}$	Q_3

TABLE 0: Answers