

COORDINATE GEOMETRY

EXERCISE 3.2

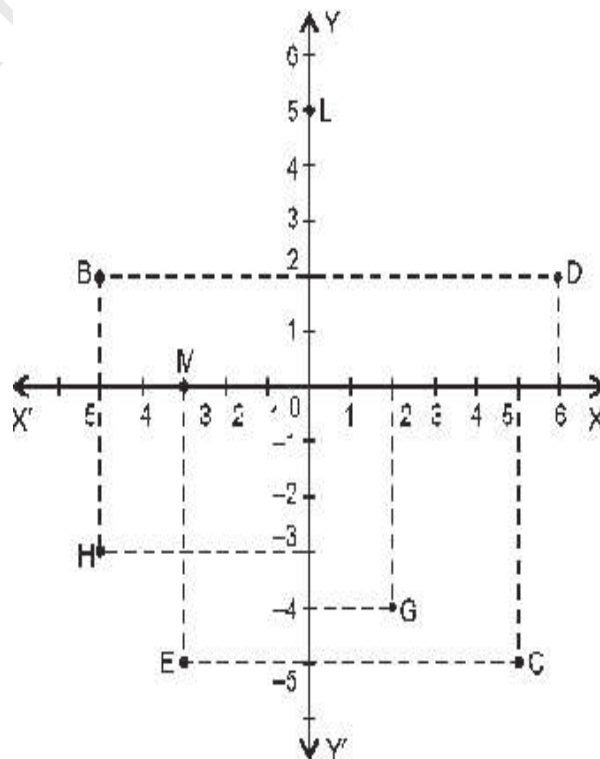
Q.1. Write the answer of each of the following questions :

- (i) What is the name of horizontal and the vertical lines drawn to determine the position of any point in the Cartesian plane?
- (ii) What is the name of each part of the plane formed by these two lines?
- (iii) Write the name of the point where these two lines intersect.

Sol. (i) x-axis and y-axis (ii) Quadrants (iii) Origin

Q.2. See Fig. and write the following :

- (i) The coordinates of B.
- (ii) The coordinates of C.
- (iii) The point identified by the coordinates $(-3, -5)$.
- (iv) The point identified by the coordinates $(2, -4)$.
- (v) The abscissa of the point D.
- (vi) The ordinate of the point H.
- (vii) The coordinates of the point L.
- (viii) The coordinates of the point M.



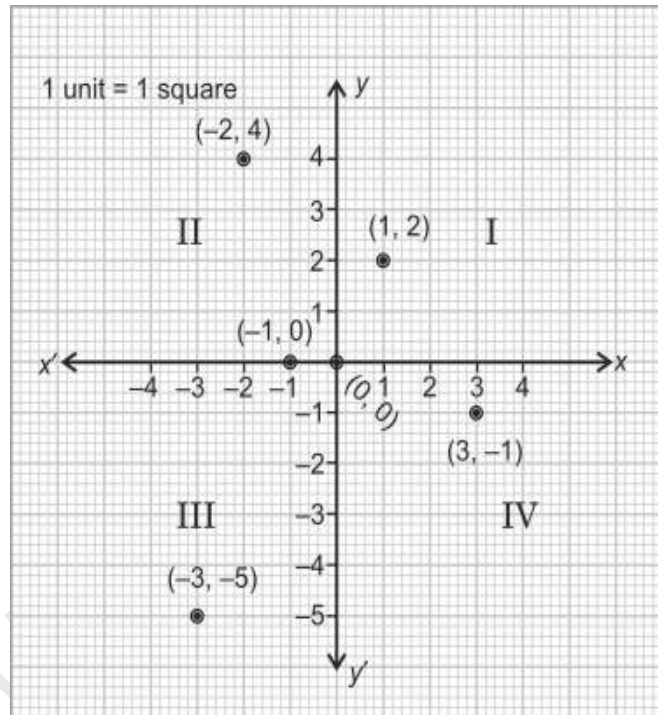
Sol. (i) $(-5, 2)$ (ii) $(5, -5)$
 (iii) E (iv) G
 (v) 6 (vi) -3
 (vii) $(0, 5)$ (viii) $(-3, 0)$

COORDINATE GEOMETRY

EXERCISE 3.3

Q.1. 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.

Sol. $(-2, 4)$: 2nd quadrant
 $(3, -1)$: 4th quadrant
 $(-1, 0)$: x -axis
 $(1, 2)$: 1st quadrant
 $(-3, -5)$: 3rd quadrant



Q.2. Plot the points (x, y) given in the following table on the plane, choosing suitable units of distance on the axes.

x	-2	-1	0	1	3
y	8	7	-1.25	3	-1

Sol.

