

Mathematics

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(Chapter – 3) (Coordinate Geometry)(Exemplar Problems)

(Class – IX)

Exercise 3.2

Question 1:

Write whether the following statements are True or False? Justify your answer.

- (i) Point (3, 0) lies in the first quadrant.
- (ii) Points (1, -1) and (-1, 1) lie in the same quadrant.
- (iii) The coordinates of a point whose ordinate is $-\frac{1}{2}$ and abscissa is 1 are $(-\frac{1}{2}, 1)$.
- (iv) A point lies on y-axis at a distance of 2 units from the x-axis. Its coordinates are (2, 0).
- (v) (-1, 7) is a point in the II quadrant.

Answer 1:

(i) False

Since, the ordinate of the point (3,0) is zero. So, the point lies on X-axis.

(ii) False

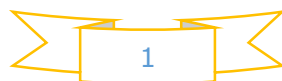
Because in point (1, -1) x-coordinate is positive and y-coordinative is negative, so it lies in IV quadrant and in (-1, 1), x-coordinate is negative and y-coordinative is positive, so it lies in II quadrant.

(iii) False

Because stating the coordinates of a point abscissa comes first and then ordinate $(1, -\frac{1}{2})$

(iv) False

Because point (2, 0) lies on X-axis whose distance from Y-axis is 2 units.



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(v) True

Because in a point $(-1,7)$ abscissa is negative and ordinate is positive.

