

# Mathematics

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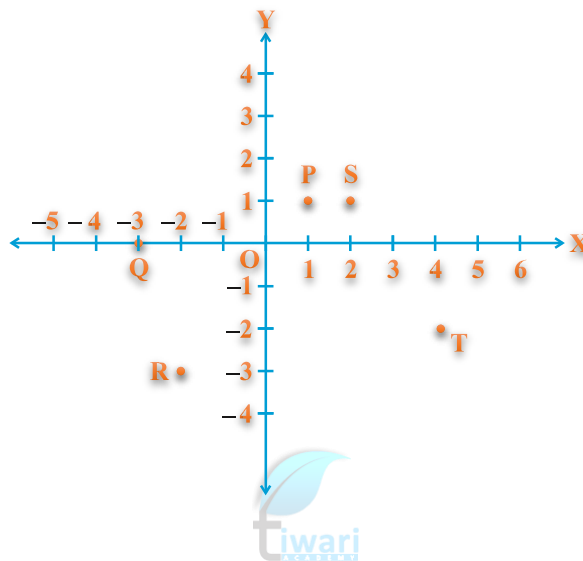
(Chapter – 3) (Coordinate Geometry)(Exemplar Problems)

(Class – IX)

## Exercise 3.3

### Question 1:

Write the coordinates of each of the points P, Q, R, S, T and O from the Fig. 3.5.



### Answer 1:

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

Here, points P and S lie in I quadrant so their coordinates will be positive. Now perpendicular distance of P from both axes is 1, so coordinate of P are (1, 1). Also perpendicular distance of S from X-axis is 1 from Y-axis is 2, so coordinate of S are (2, 1). Point Q lies on X-axis in negative direction so its y-coordinate will be zero and x-coordinate will be -3. So, coordinate of Q are (-3, 0). Point R lies in III quadrant, so its both coordinates will be negative. Now its perpendicular distance from X-axis is 3 and Y-axis is 2, so coordinate of point R (-2, -3). Point T lies in IV quadrant, so its x-coordinate will be positive and y-coordinate will be negative. Now its perpendicular distance from X-axis is 2 and from Y-axis is 4, so coordinates of T are (4, -2). Point O is the intersection of both axes, so it is the origin and its coordinates are O (0, 0).

