

## DYA SHREE ACADE SR. SEC. SCHOOL

An English Medium Co.Ed. School | Science & Commerce



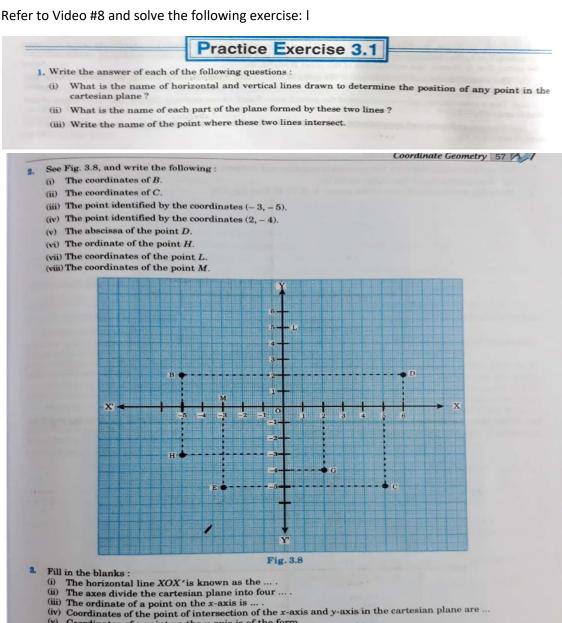
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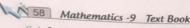
Subject - Maths.

Class-9 Topic – Ch. 3 Coordinate Geometry



- (v) Coordinates of a point of intersection of the Y-axis and y-axis in the conditions.
  (vi) In the fourth quadrant the abscissa is ... and ordinate is ....
  (vii) If the perpendicular distance of a point P from the x-axis is 5 units in the positive direction of y-axis and perpendicular distance of P from the y-axis is 7 units in the negative direction of x-axis, then coordinates of P are ....
  State whether the following attempts are true or false.
- State whether the following statements are true or false:
  - (i) The distance of the point along x axis from the origin O is called abscissa of the point. (ii) YOX is called the IIIrd quadrant of the cartesian plane.

  - (iii) Coordinates of a point on the x-axis is of the form (0, x).



- (iv) In the second quadrant, the abscissa is negative and ordinate is positive.
- (v) The coordinates of the origin are (0, 0).
- Write the coordinates of each of the points A, B, C, D, E in Fig. 3.9.

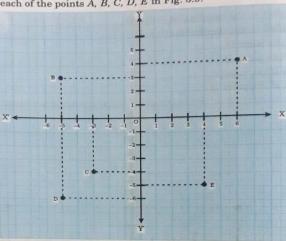
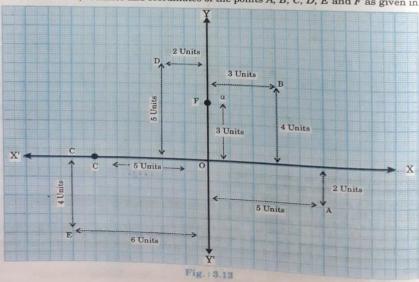


Fig. 3.9

Write down the abscissa, ordinate and coordinates of the points A, B, C, D, E and F as given in the Fig. 3.1



- 7. Find the coordinates of the point :
  - (i) Whose abscissa is 3 and lies on the x-axis.
  - (ii) Whose ordinate is 5 and lies on the y-axis.
  - (iii) Whose abscissa is 4 and lies on the x-axis.
  - (iv) Which lies on both the axes.
- & Which of the following points lies on the x-axis:

$$P(3,0),\,Q(0,0),\,R(0,-2),\,S(2,5),\,T(0,4),\,U(-4,0),\,V(-7,-7),\,W(-1,0)$$

9. Which of the following points lies on the y-axis:

$$A(0, -3), B(4, 0), C(0, 1), D(4, -5), E(0, 0), F(-7, 0), G(-3, 0), H(0, 5)$$

10. In which quadrant each of the following points lie:

- (i)(3, -4)
- (ii) (5, 5)
- (iii) (-6, -3)
- (iv) (-9, 3)

## Practice Exercise 3.2

- 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.
- 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
у	8	7	- 1.25	3	-1

- 3. Locate the points (3, 0), (-3.5, 2.5), (5.5, -3.5), (-3.5, -4.5) and (0, -5.5) in the cartesian plane.
- 4. Plot the points (x, y) given in the following table on the plane, choosing a suitable scale 1 cm = 0.5 unit on the axes.

	x	3.5	- 0.5	- 1.5	1.0	- 2.75
ı	y	1.5	1.25	- 1.75	-2.25	0.75

- 5. Plot the following points and state whether they are collinear or not?
  - (i) A(-1, 2), B(2, 0) and C(5, -2)
  - (ii) K(3, 2), L(-2, -2) and M(2, -1)
  - (iii) O(0, 0), P(2, 2) and Q(5, 5)

[NCERT Exemplar Problems]

- Draw the triangle ABC, whose vertices are A(6, 2), B(3, -1) and C(-2, 4).
- 7. Plot the following points and write the name of the quadrilateral so formed in each case:
  - (i) A(1, 1), B(6, 2), C(7, 6) and D(2, 5)
  - (ii) A(1, 1), B(2, 4), C(8, 4) and D(10, 1)
  - (iii) A(-2, -2), B(-4, 2), C(-6, -2) and D(-4, -6)
- Three vertices of a rectangle are (3, 2), (-4, 2) and (-4, 5). Plot these points and find the coordinates of the fourth vertex. [NCERT Exemplar Problems]