CLASS IX MATHEMATICS ASSIGNMENT
CHAPTER – 3 COORDINATE GEOMETRY

Q.1. Find the perpendicular distance of a point P(3,4) from the y – axis.

Q.2. Three vertices of a rectangle are (3,2), (-4,2) and (-4,5). Plot these points and find the coordinates of the fourth vertex.

Q.3. What will be the abscissa of the point lying on x – axis.

Q.4. Name the quadrant/quadrant's in which the ordinate of a point is negative.

Q.5. What is the coordinate of the point of intersection of two axis.

Q.6. P and Q are points (-2,7) and (-3,4) respectively. Find the value of [Abscissa of P]-[Ordinate of Q].

Q.7. What will be the coordinate of a point lying on a y-axis at a distance of 7 units below x – axis.

Q.8. Name the quadrants in which both the coordinates are negative.

Q.9. Write the coordinate of the point whose ordinate is 3 and which lies on y – axis.

Q.10. Give the perpendicular distance of a point (-6,2) from x – axis and y – axis.

Q.11. Name the horizontal and vertical lines drawn to find the position of a point in the cartesian plane.

Q12. What is the point of intersection of two axis called? What are the coordinates of the origin?

Q.13. What are the coordinates of the point which is 2 units left of y – axis and lying on x – axis.

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Q.14. Define abscissa of a point. What is the abscissa of a point on Y – axis.

Q.15. Define ordinate of a point. What is the ordinate of a point on X – axis.

Q.16. Name the quadrant formed by positive x – axis and negative y – axis.

Q.17. The distance of a point from x – axis is 3 units and that form y – axis is 4 units. Find the coordinates of the point.

Q.18. Name the quadrant for which abscissa is negative and ordinate is positive.

Q.19. Name the quadrant in which (3,-2) lie.

Q.20. Find whether the following points are collinear or not.

(3,3), (-1,6),(7,-2)

Q.21. Plot each of the following points by taking a coordinate system on a graph paper

A (3,1),B (2,-3),C (-4,0),D (-2,-1),E (-5,2),F (0,-5)

Q.22. Plot the following points on coordinate plane.

P(3,1), Q(8,1), R(8,-3) S(3, - 3)

What type of figure do you get by joining the points P,Q,R and S.

Q.23. Write the coordinates of the vertices of a rectangle whose length and breadth are 5 and 3 units respectively, one vertex at origin, the longer side on the x-axis and one of the vertices in the third quadrant.

Q.24. Draw the quadrilateral with vertices (-4,4), (6,0), (-4, -4), (2,0). Name the type of quadrilateral and find its area.

Q.25. Which of the following points lies on x – axis? Which on y – axis?

A(0,2), B(5,6), C(-3,0), D(0,-3) ,E(0,4), F(6,0), G(3,0)

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Q.26. Plot the points given in the table below in the Cartesian plane.

X	-1	0	-8	5	-3
Y	7	7	0	-2	-3

Q.27. Find the coordinates of the point.

a. whose abscissa is – 5 and ordinate is 4.

b. whose ordinate is – 7 and lies on y axis.

c. whose abscissa is 1 and lies on x axis.

d. whose abscissa equals the ordinate and whose distance from y axis is 3 units in the positive direction of x axis.

Q.28. Locate the following points on the cartesian plane.

A(3,2), B(-3,-5), C(5,-7), D(-6,3), E(4,0)

Q.29. Plot the point O (0,0), A (3,0), C(0,4). Complete the rectangle OABC and then find the coordinates of the point B.

Q.30. Plot the points P (1,1), Q(1,6), R(5,9) and S(5,4) and identify the figure.

Q.31. Name the quadrant in which each of the following point lie.

P (-5, -3), Q(3,2), R(5,-4), S(-2,3), T(1,4)

Q.32. What is the condition for (x,y) and (y,x) to represent the same point on the cartesian plane.

Q.33. Join the points A(4,-4), B(4,4), C(-4,4), D(-4,-4), on x – y plane to get the square ABCD. Also find the perimeter and area of the square.

Q.34. Plot the points A(-2,7), B(-2,4), C(4,4). Complete the rectangle ABCD and find the coordinates of the vertex D.

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Q.35. Plot the point A(2,2), B(2,-2), C(-2,-2), D(-2,2) in cartesian plane and identify the fig. ABCD. Also find its area.

Q.36. Show that the points (7,10),(-2,5) and (3,-4) are the vertices if an isosceles right triangle.

Q.37. Find whether the points are collinear or not (2,2), (4,0), (0,4).

Q.38. There are two villages at P(-5,-7) and Q(3,7). The gram pradhan wants to dig a well in such a way that its distance from both the villages remain the same.

a. Plot the points P (-5,7), Q(3,7). Denote well by point R.

b. Give the coordinates of the well.

c. Which values are depicted by Gram Pradhan.

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