

COORDINATE GEOMETRY

CLASS: IX

SUBJECT: MATHEMATICS

1. In which quadrant or on which axes do each point lie?
 - a) The ordinate is 3 and abscissa is -4
 - b) The abscissa is -2 and ordinate is -3
 - c) $(-3, 2)$
 - d) $(0, -4)$
 - e) $(5, 0)$
2. Given point P $(3, 4)$. What is the distance of point P from (a) x axis (b) y axis?
3. Plot the points A $(4, 0)$, B $(4, 4)$ and C $(0, 4)$ on the graph. Join OA, AB, BC, and CO. Name the figure so formed and measure its sides
4. How many axes and quadrants are there in a Cartesian plane?
5. Plot the points on a graph paper:
(a) $(3, 4)$ (b) $(-2, 3)$ (c) $(-1, -2)$ (d) $(5, -1)$
6. Check whether the points $(1, 5)$, $(0, 3)$ lie on the line $y = 3 + 2x$ or not
7. Find the area of the triangle whose vertices are $(0, 4)$, $(0, 0)$ and $(2, 0)$ by plotting them on graph
8. Find the equation of a line parallel to x – axis at a distance of 2 units below x - axis
9. Find the coordinates of the point
 - (a) Which lies on x and y axis both
 - (b) Whose ordinate is -4 and which lies on y axis
 - (c) Whose abscissa is 5 and which lies on x – axis
10. Write the coordinates of a point left of y – axis and on y – axis at a distance of 6 units
11. Draw the graph of the equation $y = 3x$