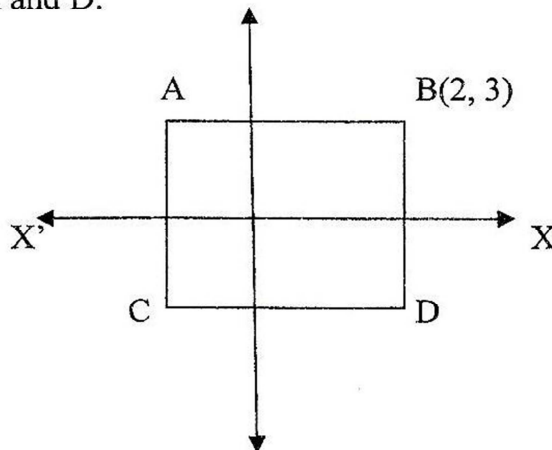


CHAPTER 3

COORDINATE GEOMETRY

- In which quadrant or axis will the point lie, if
 - the ordinate is 3 and the abscissa is -4?
 - the abscissa is -2 and the ordinate is -3?
 - (4,0) (d) (3,4)
 - (0,-5)
- Plot the point
 - whose abscissa is -6 and ordinate is 3
 - whose ordinate is -5 and lies on y-axis
 - whose abscissa is 4 and lies on x-axis
 - whose abscissa equals the ordinate and whose distance from y-axis is 4 units in the positive direction of x-axis.
- Given the point P (3, 4). What is the distance of the point P from (i) x-axis (ii) y-axis
- 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 obtained and find its area.
- A point lies on the positive side of y-axis at a distance of 2 units from x-axis. Its coordinates are (2, 0). State true or false. Justify your answer.
- Write the abscissa and ordinate of the point (-7, 5).
- ABC is an equilateral triangle. The coordinates of the vertices of B and C are (3, 0) and (-3, 0) respectively. Find the coordinates of its vertex A
- ABCD is a square. The coordinates of B and C are (2, 3) and (-1, -2) respectively. Find the coordinates of A and D.



- ABC is an equilateral triangle with co-ordinate of B and C as B (1, 0) and C (5, 0). Find the co-ordinate of the vertex A.
- The length of perpendiculars PM and PN drawn from a point P, on x-axis and y-axis are of 3 and 2 units respectively. Find the co-ordinates of points P, M and N

11. Choose the correct answer.

- (1). The mirror image of the point $(3,9)$ on x-axis is
(a) $(-3,9)$ (b) $(9,3)$ (c) $(3,9)$ (d) $(-3,-9)$
- (2). The mirror image of the point $(4,-3)$ on y-axis is
(a) $(-4,3)$ (b) $(-4,-3)$ (c) $(4,-3)$ (d) $(4,3)$
- (3). A point whose coordinates are positive in
(a) I quadrant (b) II quadrant (c) III quadrant (d) IV quadrant
- (4). The point in which abscissa and ordinate have different sign will lie in
(a) I & II quadrant (b) II & III quadrant (c) III & I quadrant (d) II & IV quadrant.

12. PQR is an equilateral triangle with coordinates of Q & R as $(0,4)$, $(0,-4)$ respectively.
Find the coordinates of the vertex P.

