National Institute of Open Schooling (NIOS) Secondary Course Lesson –19: Coordinate Geometry Worksheet – 19

- 1. Write the x and y coordinates of the following points and show it on the graph paper (a) (3, -2) (b) (-6, -3) (c) (-7, 3)
- 2. Identify the following points on quadrant-wise
 - (a) (-6, -2)
- (b) (-5, 3)
- (c)(4,3)
- 3. Find the distance between each of the following points
 - (i) P(8, -2) and Q(11, 2)
 - (ii) A(5, -3) and B(11, 5)
- 4. Determine the ratio in which the line 3x + y 9 = 0, internally divides the segment joining the points (1, 3) and (2, 7)
- 5. Plot (-3, 0), (5, 0) and (0, 4) on Cartesian plane. Name the figure formed by joining these points and find its area.
- 6. In an equilateral triangle ABC with coordinates as B (-3, 0) and C (3, 0). Find the coordinates of the vertex A.
- 7. Prove that the points (2, -2), (-2, 1) and (5, 2) are vertices of a right angled triangle.
- 8. The distance between two points (0, 0) and (y, 4) is 5. Find the value of y.
- 9. The three points A (-5, 6), B (-1, 2) and C (2, -1) on the Cartesian plane. Find the distance between AB, BC, and CA and also show that three points are collinear.
- 10. The coordinates of the vertices of a triangle are (4, -2), (10,7) and (5,3). Find the coordinate of Centroid of the triangle.