SHRI DHARMASTHALA MANJUNATHESHWARA SCHOOL,
GRADE 9 WORKSHEET 3: COORDINATE GEOMETRY

1. If ABCD is a square, whose co-ordinates are $A\ (3,4),\ B\ (-2,4), C\ (-2,-1)$. Find the coordinate of D by plotting the points on graph paper.
2. Plot the points $(0,-4), (-4,0), (0,0)$ on the graph. What type of figure you are getting, find the area of it.
3. Plot the points $A(-4,4), B(-6,0), C(-4,-4), D(-2,0)$. Write what type of figure you get and find the area of it.
4. By plotting the points $(3,5), (1,-1), (0,1)$, check whether they are collinear or not.
5. Find the area of the triangle formed by joining the points $(0,5), (5,0), (0,0)$.
6. Plot the points $A(5,3), B(-2,3), D(5,-4)$ which are three vertices of a square ABCD. Hence find the co-ordinates of C. Also find the area of it.
7. Draw an equilateral triangle ABC in which the co-ordinates of the vertices B and C are (3,0) and (-3,0) respectively. Find the co-ordinates of the vertex A.
8. Write the coordinates of the vertices of a rectangle whose length and breadth are 5 and 3 units respectively. One vertex at the origin, the longer side lies on the X-axis and one of the vertices lies in the third quadrant.
9. Find the coordinates of the point:
   i) which lies on both x and y-axis.
   ii) whose abscissa is 5 and lies on x-axis.
   iii) whose ordinate is -4 and lies on y-axis.
10. Draw the quadrilateral with vertices $(-4,4), (-6,0), (-4,-4), (-2,0)$. Name the type of quadrilateral and find its area.