AMK Resource World

SSLC – Daily Practice Papers

CO-ORDINATE GEOMETRY

CLICK & JOIN

MATHS PRACTICE PAPER 03

Total Marks : 20

I. Choose the Most Appropriate Answers   **3 x 1 = 3**

1. The distance between the point P(1, 4) and Q(4, 0) is
   a. 4   b. 5   c. 6   d. $3\sqrt{3}$
2. The area of the triangle ABC with the vertices A(-5, 7), B(-4, -5) and C(4, 5) is
   a. 63   b. 35   c. 53   d. 36
3. The line segment joining the points (3, -1) and (-6, 5) is trisected. The coordinates of point of trisection are
   a. (3, 3)   c. (3, − 3)
   b. (- 3, 3)   d. (-3,-3)

II. Solve the following   **2 x 1 = 2**

4. Find the distance between (2, 3), (4, 1) pairs of points
5. Write distance formula to find the distance between any two points

III. Solve the following   **4 x 2 = 8**

6. Determine if the points (1, 5), (2, 3) and (-2, -11) are collinear.
7. Find the coordinates of the point which divides the join of (-1, 7) and (4, -3) in the ratio 2 : 3
8. If (1, 2), (4, y), (x, 6) and (3, 5) are the vertices of a parallelogram taken in order, find x and y.
9. Determine the ratio, in which the line $2x + y - 4 = 0$ divides the line segment joining the points A(2, -2) and B(3, 7)

IV. Solve the following   **1 x 3 = 3**

10. If Q (0, 1) is equidistant from P (5, -3), and R (x, 6), find the values of x. Also, find the distances QR and PR.

V. Solve the following   **1 x 4 = 4**

11. Find the area of the triangle formed by joining the mid-points of the sides of the triangle whose vertices are (0, -1), (2, 1) and (0, 3). Find the ratio of this area to the area of the given triangle