

Coordinate geometry

1. Find the distance of point A (- 7, 7) from the origin. 2
2. Prove P (1, - 3), Q (- 3, 0) and R (4, 1) are vertices of an isosceles right triangle. Also Name the right angle. 3
3. Find the point on X axis which is equidistant from points P (-2, 5) and Q (2, -3) 2
4. Prove diagonals of a rectangle are equal and bisect each other. 3
5. The points A (-2, 3), B (3, 4), C(x, y) form an equilateral Δ . Find x and y 3
6. Prove that quadrilateral formed by joining following points is a parallelogram (2, 1), (8, 9), (-3, 11) and (-9, 3). 3
7. The length of a line segment AB is 10 units. If the point A is (2, -3) and point B is (10, y), find the value(s) of y. 3
8. If the coordinates of midpoints of sides of the triangle be (3,-2), (-3, 1) and (4,-3) then find the coordinates of its vertices. 3
9. Derive distance formula 3

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