



ACADEMIC YEAR 2022-23

Grade: X

Subject: MATHEMATICS

CH – 7 – COORDINATE GEOMETRY - ASSIGNMENT -2

- 1 If P(-1, 1) is the middle point of the line segment joining A(-3, b) and B(1, b + 4) then the value of b is
(a) 1 (b) -1 (c) 2 (d) 0
- 2 y-axis divides the join of P(-4, 2) and Q(8, 3) in the ratio
(a) 3 : 1 (b) 1 : 3 (c) 2 : 1 (d) 1 : 2
- 3 If the origin is the mid-point of the line segment joined by the points (2,3) and (x,y), then the value of (x,y) is
(a) (2, -3) (b) (2, 3) (c) (-2, 3) (d) (-2, -3)
- 4 In what ratio does the point P $(2, -\frac{5}{6})$ divide the line segment joining the points A (-3, 5) and B (3, -2).
- 5 Find the point on x-axis which is equidistant from the points (-2, 5) and (2, -3).
- 6 Find the value of 'k' for which the point (8, 1), (k, -4) and (2, -5) are collinear.
- 7 Find the co-ordinates of the points of trisection of the line segment joining the points A(2, -2) and B(-7, 4).
- 8 Find the value of k for which the points A (7, -2), B (5, 1) and C (3, k) are collinear.
- 9 The points A (3, 2) and B (2, -3) are equidistant from a point P(x, y). Find the relation between x and y.
- 10 Prove that the points A(2, -2), B(14, 10), C(11, 13) and D(-1, 1) are vertices of a rectangle.
