Class 10 Mathematics · Chapter 7: Coordinate Geometry

Worksheet · 20 marks · about 40 minutes · based on NCERT

Name _____ Class and section _____ Date _____

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1. While finding the distance between two points, Aarav gets $PQ^2 = 49$. The distance PQ is [1]

(a) ±7 units (b) −7 units
(c) 7 units (d) 49 units

2. The distance of the point P(−6, 4) from the y-axis is [1]

(a) 6 units (b) 4 units
(c) −6 units (d) $2\sqrt{13}$ units

3. Which of the following points lies on the x-axis? [1]

(a) (0, −3) (b) (−3, 0)
(c) (3, 3) (d) (−3, 3)

4. The distance of the point (−9, 12) from the origin is [1]

(a) 21 units (b) 3 units
(c) 15 units (d) $3\sqrt{7}$ units

5. A kite K is flying at the point (5, −8) on a grid whose x-axis runs along a straight canal bank. The distance of K from the x-axis is [1]

(a) 5 units (b) 8 units
(c) −8 units (d) $\sqrt{89}$ units

6. P and Q are the points of trisection of AB, with P nearer to A. If P is (1, −2) and Q is (4, 2), find A and B. [2]

7. A point P lies in the second quadrant at a distance of 3 units from the x-axis and 4 units from the y-axis. Write the coordinates of P and find its distance from the origin. [2]

8. Find the values of y for which the distance between A(−4, y) and B(2, 1) is 10 units. [2]

9. Find the points on the x-axis that are at a distance of 5 units from A(4, 3). Show that one of them is the origin. [3]

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10. Find the points of trisection of the segment joining A(−5, 7) and B(4, −2). Verify, using the mid-point formula, that the point nearer to B is the mid-point of the segment joining the other point of trisection and B. [3]

11. A cable-car line runs straight from station A(12, 5) to station B(4, −3). A stop P on the line is at the point (x, 2). Find the ratio in which P divides AB and the value of x. [3]

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