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CBSE 10th Coordinate Geometry

Unsolved Paper

Q.1. Find the distance between the following pairs of points:

(i) (2, 3), (4, 1) (ii) (-5, 7), (-1, 3) (iii) (a, b), (-a, -b)

Q.2. Determine if the points (1, 5), (2, 3) and (-2, -11) are collinear.

Q.3. Check whether (5, -2), (6, 4) and (7, -2) are the vertices of an isosceles triangle.

Q.4. Find the values of y for which the distance between the points P (2, -3) and Q (10, y) is 10 units.

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

Q.6. Find a relation between x and y such that the point (x, y) is equidistant from the point (3, 6) and (-3, 4).

Q.7. Find the area of the triangle whose vertices are:

(i) (2, 3), (-1, 0), (2, -4) (ii) (-5, -1), (3, -5), (5, 2)

Q.8. In each of the following find the value of 'k', for which the points are collinear.

(i) (7, -2), (5, 1), (3, -k) (ii) (8, 1), (k, -4), (2, -5)

Q.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)

Q.10. Find a relation between x and y if the points (x, y), (1, 2) and (7, 0) are collinear.

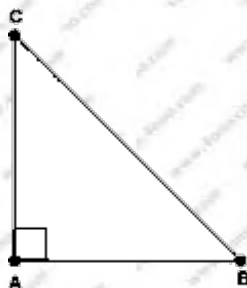
Q.11. Find the centre of a circle passing through the points (6, -6), (3, -7) and (3, 3).

Q.12. Find the value of a when the distance between the points (3, a) and (4, 1) is $\sqrt{10}$.

Q.13. If the points (2, 1) and (1, -2) are equidistant from the point (x, y) from (-3, 0) as well as from (3, 0) are 4.

Q.14. Prove that the points A (1, 7), B (4, 2), C (-1, -1) and D (-4, 4) are the vertices of a square.

Q.15. Prove that the points (3, 0) (6, 4) and (-1, 3) are vertices of a right angled isosceles triangle.



Q.16. Prove that the points (2, 3), (-4, -6) and (1, 3/2) do not form a triangle.

Q.17. Prove that the points (-2, 5), (0, 1) and (2, -3) are collinear.

Q.18. Find the value of k, if the point P (0, 2) is equidistant from (3, k) and (k, 5).

Q.19. If two opposite vertices of a square are (5, 4) and (1, -6), find the coordinates of its remaining two vertices.

Q.20. Find a point on the x-axis which is equidistant from the points (7, 6) and (—3, 4).

Q.22. Find the points of trisection of the line segment joining the points: (i) (5, —6) and (—7, 5),

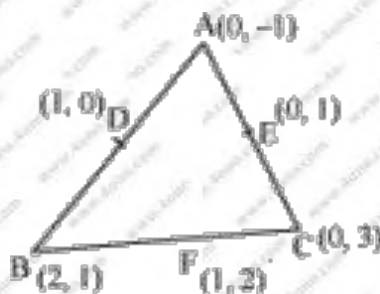
(ii) (3, —2) and (—3, —4)

(iii) (2, —2) and (—7, 4).

Q.23. If A (—1, 3), B (1, —1) and C (5, 1) are the vertices of a triangle ABC, find the length of the median through A

Q.24. If the coordinates of the mid-points of the sides of a triangle be (3, —2), (—3, 1) and (4, —3), then find the coordinates of its vertices.

Q.25. 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. Answer:



Q.26. Find the distance between the following pair of points:

(i) (—6,7) and (—1, —5)

(ii) (a+b, b+c) and (a-b, c-b)

(iii) (a sin α, b cos α —) and (—a cos α, b sin α)

(iv) (a,0) and (0,b)

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