MATHS

NCERT - NCERT MATHEMATICS(TAMIL ENGLISH)

COORDINATE GEOMETRY

Example Solution

1. Find the distance between the points (–4, 3), (2,–3).

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2. Show that the following points A(3,1) , B(6,4) and C(8,6) lies on a straight line.

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3. Show that the points A(7,10), B(-2,5), C(3,-4) are the vertices of a right angled triangle.

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4. Show that the points A(-4,-3), B(3,1), C(3,6), D(-4,2) taken in that order form the vertices of a parallelogram.

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5. Calculate the distance between the points A (7, 3) and B which lies on the x-axis whose abscissa is 11.

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6. Find the value of 'a' such that PQ = QR where P, Q, and R are the points whose coordinates are (6, –1), (1, 3) and (a, 8) respectively.

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7. Let A(2, 2), B(8, –4) be two given points in a plane. If a point P lies on the X- axis (in positive side), and divides AB in the ratio 1: 2, then find the coordinates of P.

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8. Show that (4, 3) is the centre of the circle passing through the points (9, 3), (7,–1), (–1,3). Also find its radius.

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9. The point (3,-4) is the centre of a circle. If AB is a diameter of the circle and B is (5,-6), fi nd the coordinates of A.

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10. If (x,3), (6,y), (8,2) and (9,4) are the vertices of a parallelogram taken in order, then find the value of x and y.

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11. Find the points of trisection of the line segment joining (-2,-1) and (4,8).

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12. Find the coordinates of the point which divides the line segment joining the points (3,5) and (8,−10) internally in the ratio 3:2.

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13. In what ratio does the point P(−2, 4) divide the line segment joining the points A(−3, 6) and B(1, −2) internally?

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14. What are the coordinates of B if point P(−2,3) divides the line segment joining A(−3,5) and B internally in the ratio 1:6?

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15. Find the centroid of the triangle whose veritices are A(6,-1), B(8,3) and C(10,-5).

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16. If the centroid of a triangle is at (-2,1) and two of its vertices are (1,-6) and (-5,2), then find the third vertex of the triangle.

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