Latex Assignment1

APARNA ANAND

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Example-1-15 (10.7)

- 1. Do the points (3,2)(-2,-3) and (2,3) form a triangle? If so, name the type of triangle formed.
- 2. Show that the points (1,7), (4,2), (-1,-1) and (-4,4) are the vertices of a square.
- 3. Fig. 1 shows the arrangement of desks in a classroom. Ashima, Bharti and Camella are seated at A(3, 1), B(6, 4) and C(8, 6) respectively. Do you think they are seated in a line? Give reasons for your answer.
- 4. Find a relation between x and y such that the point (x, y) is equidistant from the points (7, 1) and (3, 5).
- 5. Find a point on the Y-axis which is equidistant from the points A(6,5) ans B(-4,3).
- 6. Find the coordinates of the point which divides the line segment joining the points (4, -3) and (8, 5) in the ratio 3: 1 internally.
- 7. In what ratio does the point (-4,6) divide the line segment joining the points A(-6,0) and B(3,-8)?
- 8. Find the coordinates of the points of trisection (i.e. points dividing to three equal parts) of the line segment joining the points A(2, -2) and B(-7, 4).
- 9. Find the ratio in which the Y-axis divides the line segment joining the points (5, -6) and (-1, -4). Also find the point of intersection.
- 10. If the points A(6,1), B(8,2), C(9,4) and D(p,3) are the vertices of a parallelogram, taken in order, find the value of p.
- 11. Find the area of the triangle whose vertices are (1, -1), (-4, 6) and (-3, 5).
- 12. Find the area of a triangle formed by the points A(5,2), B(4,7) and (7,-4).
- 13. Find the area of the triangle formed by the points P(-1.5, 3), Q(6, -2) and R(-3, 4).
- 14. Find the values of k if the points A(2,3), B(4,k) and C(6,-3) are collinear.
- 15. If A(-5,7), B(-4,-5), C(-1,-6) and D(4,5) are the vertices of a quadrilateral, find the area of quadrilateral ABCD.

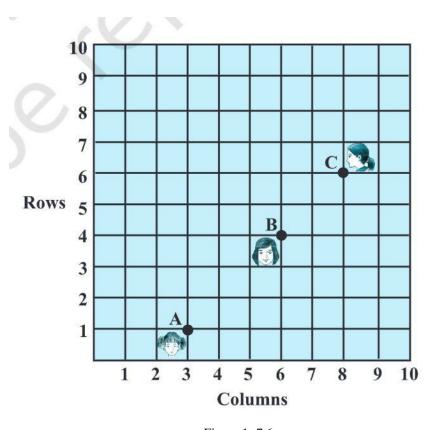


Figure 1: 7.6