

Coordinate Geometry : Worksheet -7

1. Find the coordinates of the point which divides the join of $(-1, 7)$ and $(4, -3)$ in the ratio $2 : 3$.
2. Find the coordinates of the points of trisection of the line segment joining $(4, -1)$ and $(-2, -3)$.
3. If A and B are $(-2, -2)$ and $(2, -4)$, respectively, find the coordinates of P such that $AP = \frac{3}{7} AB$ and P lies on the line segment AB.



4. Find the coordinates of the points which divide the line segment joining A(- 2, 2) and B(2, 8) into four equal parts.

5. Find the area of a rhombus if its vertices are (3, 0), (4, 5), (- 1, 4) and (- 2, - 1) taken in order.

[Hint : Area of a rhombus = $\frac{1}{2}$ (product of its diagonals)]

