

Coordinate Geometry

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This is Problem-7 from Exercise 7.4

1. Let A(4, 2), B(6,5) and C(1, 4) be the vertices of triangle ABC
(ii) Find the coordinates of the point P on the AD, such that
AP: PD = 2: 1.

Solution: :

Median AD of the triangle will divide the side BC in two equal parts.
So D is the midpoint of side BC

$$\text{Coordinates of } D = \left(\frac{(6+1)}{2} \quad + \frac{(5+4)}{2} \right) = \left(\frac{7}{2} \quad + \frac{9}{2} \right) \quad (1)$$

Point P divides the side AD in a ratio 2:1.