

1.4.9o

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Question:

Let A $\begin{pmatrix} 4 \\ 2 \end{pmatrix}$, B $\begin{pmatrix} 6 \\ 5 \end{pmatrix}$, C $\begin{pmatrix} 1 \\ 4 \end{pmatrix}$ be the vertices of $\triangle ABC$.

The median from A meets BC at D. Find the coordinates of the point D.

Solution: :

Using section formula, the mid point of BC is

$$D = \frac{B + C}{2} \quad (0.1)$$

$$(0.2)$$

$$D = \left(\frac{7}{2}, \frac{9}{2} \right) \quad (0.3)$$

Therefore $\left(\frac{7}{2}, \frac{9}{2} \right)$ are the required coordinates of D.

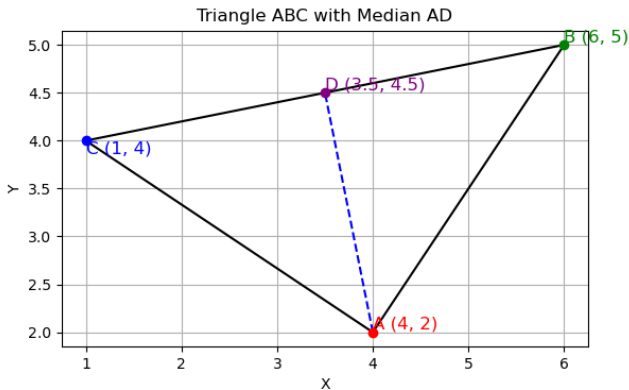


Fig. 0.1: Median of triangle