

1.4.9o

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Question:

Let **A** (4, 2), **B** (6, 5), **C** (1, 4) 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

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

$$(0.2)$$

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

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

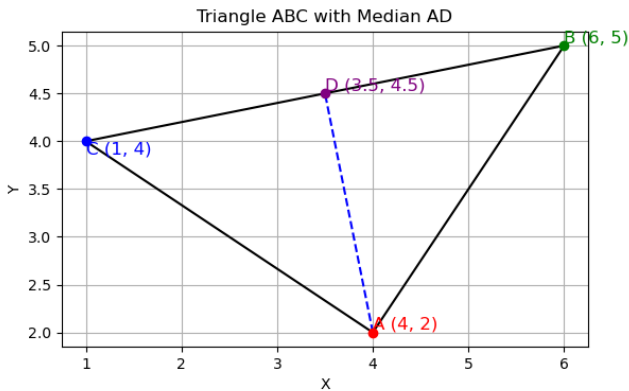


Fig. 0.1: Median of triangle