## AI25BTECH11017-SAI CHARAN

## **Question**:

Draw a triangle  $\triangle ABC$  with

$$BC = 6 \text{ cm}, \quad AB = 5 \text{ cm}, \quad \text{and } \angle ABC = 60^{\circ}.$$
 (0.1)

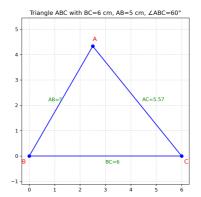
## **Solution:**

Let us solve the given equation theoretically and then verify the solution computationally According to the question,

Take

$$\mathbf{B} = \begin{pmatrix} 0 \\ 0 \end{pmatrix} \mathbf{C} = \begin{pmatrix} 6 \\ 0 \end{pmatrix} \mathbf{A} = \begin{pmatrix} 5\cos 60 \\ 5\sin 60 \end{pmatrix} \tag{0.2}$$

$$\mathbf{A} = \begin{pmatrix} 2.5\\ 2.5\sqrt{3} \end{pmatrix} \tag{0.3}$$



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