## 3.2.13

Al25BTECH11002 - Ayush Sunil Labhade

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## Question:

Draw a triangle ABC in which AB=5cm, BC=6cm and  $\angle ABC=60^{\circ}.$ 

## Solution:

The triangle can be plotted by taking B = (0,0) and A = (5,0).

Therefore, *C* will be:

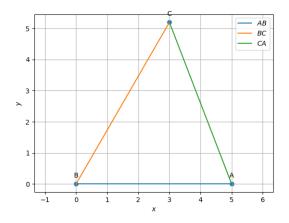
$$C = (6\cos 60^{\circ}, 6\sin 60^{\circ})$$

Thus, the points are:

Point	Vector
Α	$\begin{pmatrix} 5 \\ 0 \end{pmatrix}$
В	$\begin{pmatrix} 0 \\ 0 \end{pmatrix}$
С	$\begin{pmatrix} 6\cos(60^\circ) \\ 6\sin(60^\circ) \end{pmatrix}$

Table: Points data

## Graph:



Figure