3.2.13

AI25BTECH11002 - Ayush Sunil Labhade

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

TABLE I: Points data

Graph:

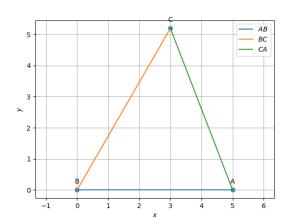


Fig. 1