

Download all python codes from

[https://github.com/balumurisandhyarani550/  
ASSIGNMNT/Assignment1.py](https://github.com/balumurisandhyarani550/ASSIGNMNT/Assignment1.py)

and latex-tikz codes from

[https://github.com/balumurisandhyarani550/  
ASSIGNMNT/main.tex](https://github.com/balumurisandhyarani550/ASSIGNMNT/main.tex)

### 1 QUESTION No.2.4

Construct  $\triangle ABC$  such that  $a=6, c=5$  and  $\angle B = 60^\circ$

### 2 SOLUTION:

let the vertices of  $\triangle ABC$  and be

$$\mathbf{A} = \begin{pmatrix} 0 \\ 6 \end{pmatrix}, \mathbf{B} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}, \mathbf{C} = \begin{pmatrix} 5 \\ 0 \end{pmatrix} \quad (2.0.1)$$

Now,  $\triangle ABC$  can be plotted using vertices  $AB$ ,  $BC$  and  $CA$ .

Plot the  $\triangle ABC$  :

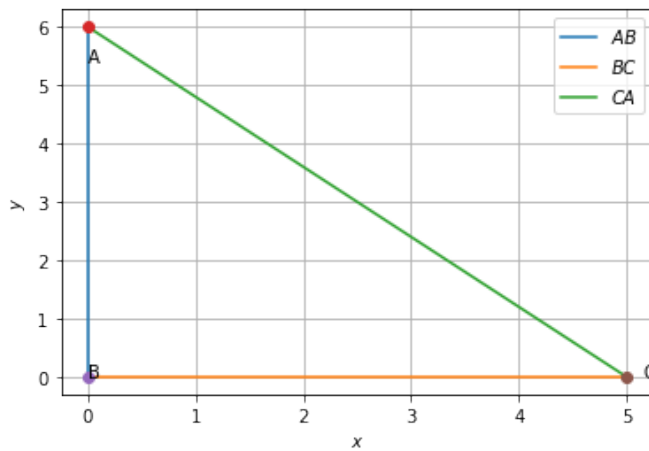


Fig. 2.1:  $\triangle ABC$

<https://www.overleaf.com/project/60b3b255c650fcc8b20b94ee>