

ASSIGNMENT 1

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Download all python codes from

<https://github.com/teja3657/Assignment1/tree/master/CODES>

and latex-tikz codes from

<https://github.com/teja3657/Assignment1/blob/master/Assignment1.tex>

1 QUESTION N0.2.16

Construct an isosceles triangle in which the lengths of the equal sides is 6.5 and the angle between them is 110° .

2 SOLUTION

As $\triangle ABC$ is an isosceles triangle, therefore, the vertices are:

$$\mathbf{C} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}, \mathbf{A} = \begin{pmatrix} 6.5 \\ 0 \end{pmatrix}, \mathbf{B} = \begin{pmatrix} -1.5 \\ 6.5 \end{pmatrix} \quad (2.0.1)$$

Now, Lines AB , BC and CA Can be plotted. At point C , plot an angle of 110° . using these coordinates to form an isosceles $\triangle ABC$. The Plot of the isosceles triangle $\triangle ABC$ is required.

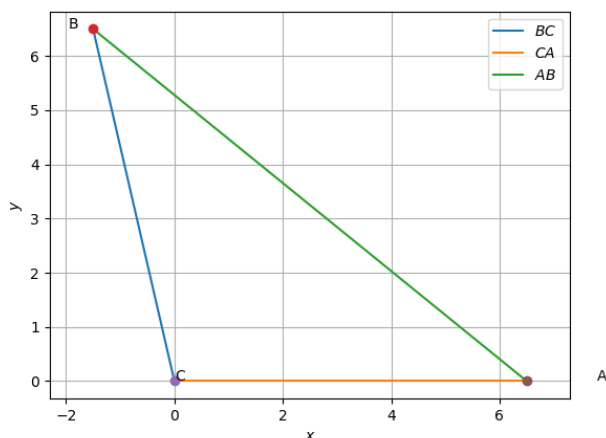


Fig. 2.1: Isosceles triangle $\triangle ABC$