

# Assignment 1

R.OOHA

Download all python codes from

<https://github.com/ooharapolu/ASSIGNMNT/Assignment1.py>

and latex-tikz codes from

<https://github.com/ooharapolu/ASSIGNMNT/main.tex>

## 1 QUESTION No.2.11

Draw an equilateral triangle of side 5.5

## 2 SOLUTION:

An equilateral triangle of side 5.5 has to be constructed. We know that all sides of an equilateral triangle are of equal length. Therefore, a triangle  $ABC$  has to be constructed with  $AB=BC=CA=5.5$ . The steps of construction are as follows:

- 1) Draw a line segment  $BC$  of length 5.5.
- 2) Taking point  $B$  as centre, draw an arc of 5.5 radius.
- 3) Taking point  $C$  as centre, draw an arc of 5.5 radius to meet the previous arc at point  $A$ .
- 4) Join  $A$  to  $B$  and  $C$ .

$ABC$  is the required equilateral triangle.

plot of the  $ABC$ :

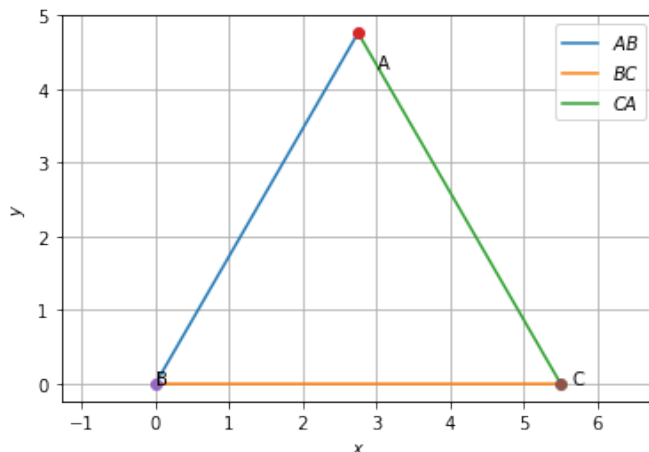


Fig. 2.1:  $ABC$