

# ASSIGNMENT 03

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- **Question:**

*Construct a triangle of sides:*

$$a = 4,$$

$$b=5, \text{ and}$$

$$c=6$$

- **Solution:**

we're given with the sides of a triangle as,

$$a = 4,$$

$$b=5, \text{ and}$$

$$c=6$$

Now,

*Steps of Construct are:*

1: Draw a line BC of length  $c=6$ .

2: Taking B as centre draw an arc at the distance of  $a=4$ .

3: Taking C as centre draw an arc at the distance of  $b=5$ .

4: Name the point where the two arcs meet as A.

5: Join AB and AC.

6: We will get the required triangle.

Now, using Latex-tikz below is the required triangle.

