

# ASSIGNMENT-4

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## 1 Question:-

In  $\triangle ABC$ ,  $a=6$ ,  $\angle B = 60^\circ$  and  $b-c=2$ . sketch the triangle.

## 2 Solution:-

Given,  $a=6$ ,  $\angle B = 60^\circ$  and  $b-c=2$ .

### 2.1 Steps of Construction:-

- Draw base BC of length  $a=6$
- Now, let's draw  $\angle B=60^\circ$   
Let the ray be BX
- From point B as centre, cut an arc on ray BX.(opposite of BC).Let the arc intersect BX at D.  
(Since  $b-c=2$ ,  $(c-b)$  is negative. So, BD will be below line BC.)
- Join CD.
- Now, we will draw perpendicular bisector of CD.
- Mark point A where perpendicular bisector intersects CD.
- Join AC.

### 2.1.1 Figure:-

