

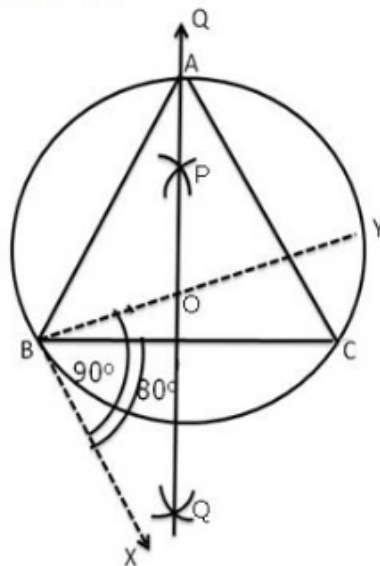


### Exercise 12A

Question 9:

Steps of Construction :

- (i) Draw a line segment  $BC = 4.8$  cm.
- (ii) Make  $\angle CBX = 80^\circ$ , below the line segment  $BC$ .
- (iii) Make  $\angle XBY = 90^\circ$ .
- (iv) Draw the right bisector  $PQ$  of  $BC$ , intersecting  $BY$  at  $O$ .
- (v) With  $O$  as centre and radius  $OB$ , draw a circle intersecting  $PQ$  at  $A$ .
- (vi) Join  $AB$  and  $AC$ .  $\therefore \triangle ABC$  is the required isosceles triangle in which  $AB = AC$ .



Question 10:

Steps of construction :

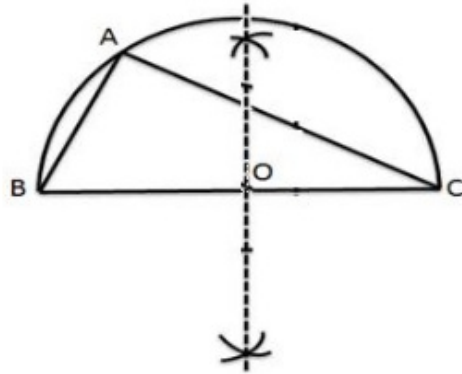
(i) Draw a line segment  $BC = 5.3\text{cm}$ .

(ii) Find the mid-point  $O$  of  $BC$ .

(iii) With  $O$  as a centre and radius  $OB$ , draw a semicircle on  $BC$ .

(iv) With  $B$  as centre and radius equal to  $4.5\text{ cm}$  draw an arc cutting the semicircle at  $A$ .

(v) Join  $AB$  and  $AC$ ,  $\therefore \triangle ABC$  is the required triangle.



\*\*\*\*\* END \*\*\*\*\*