Exercise 12A

Question 9:

Steps of Construction :

(i) Draw a line segment BC=4.8 cm.

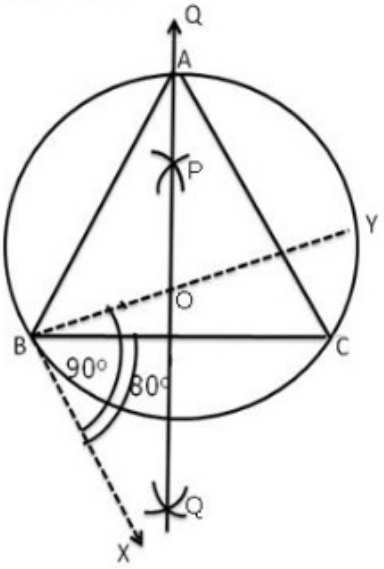
(ii) Make $\angle CBX = 80^0$, below the line segment BC.

(iii) Make $\angle XBY = 90^0$.

(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 :

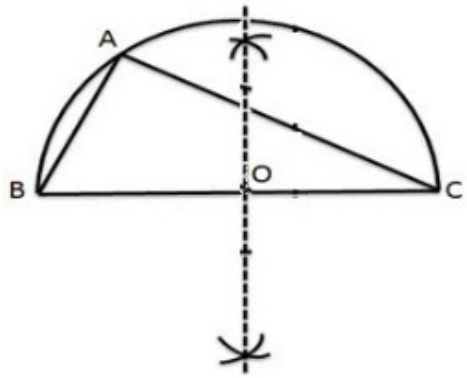
(i) Draw a line segment BC=5.3cm.

(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 cm draw an arc cutting the semicircle at A.

(v) Join AB and AC, ∴ △ABC is the required triangle.



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