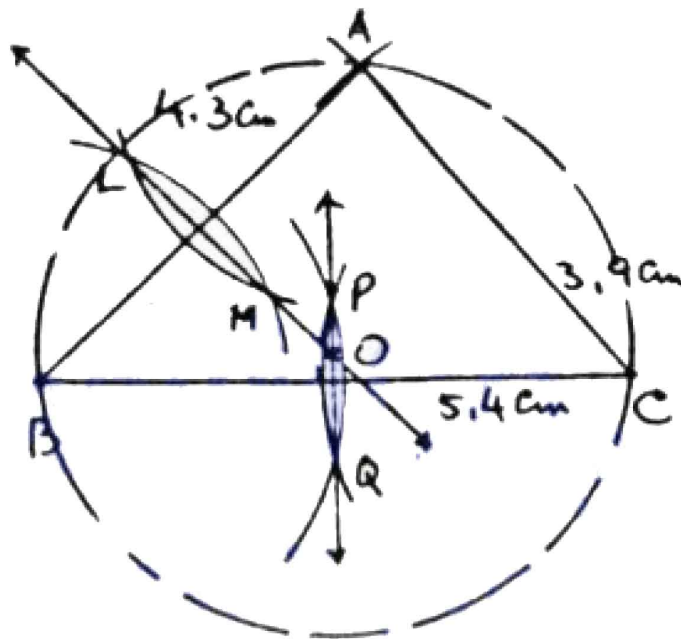


- Q.1.** Draw a triangle ABC in which $m\overline{BC} = 5.4\text{cm}$,
 $m\overline{AB} = 4.3\text{cm}$ and $m\overline{AC} = 3.9\text{cm}$. Find the in centre

Sol.



Steps of Construction:

- (i) Draw a line segment $\overline{BC} = 5.4\text{cm}$
- (ii) With B as centre draw an arc of radius 4.3 cm.
- (iii) With C as centre draw an arc of radius 3.9cm which intersect the first arc at A.
- (iv) Join A with B and C.

ABC is the required triangle.

- (v) Draw perpendicular bisectors \overline{LM} and \overline{PQ} of the sides \overline{AB} and \overline{BC} which intersect each other at O .

Point O is the required incentre.