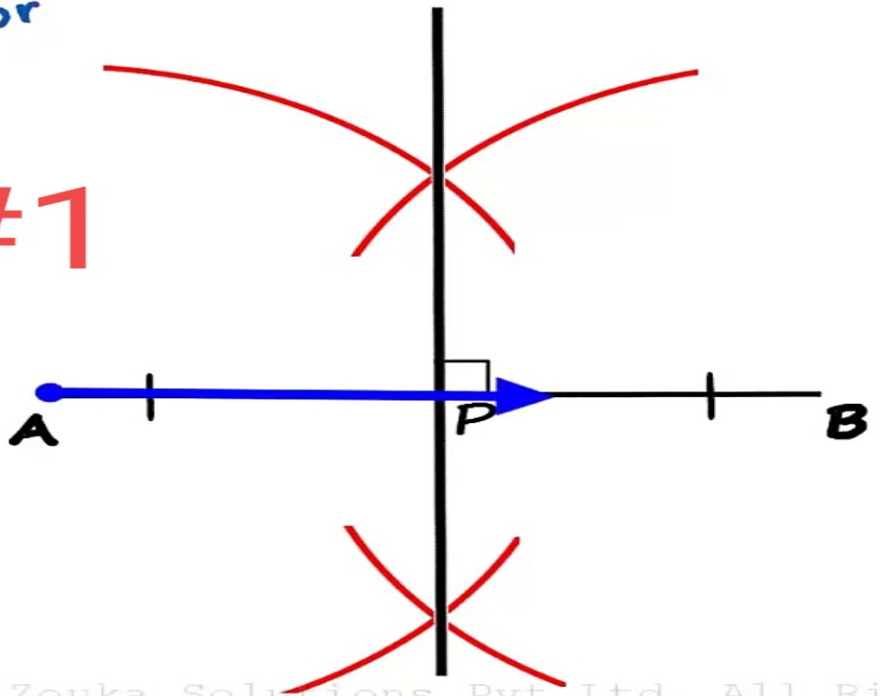
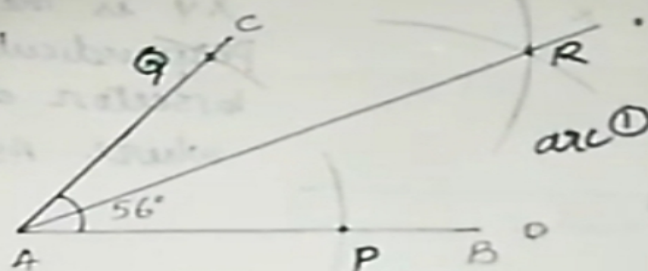


Perpendicular Bisector

Q#1



Q2: Draw an angle  $\hat{BAC}$  of  $56^\circ$ . Construct the angle bisector of  $\hat{BAC}$ .

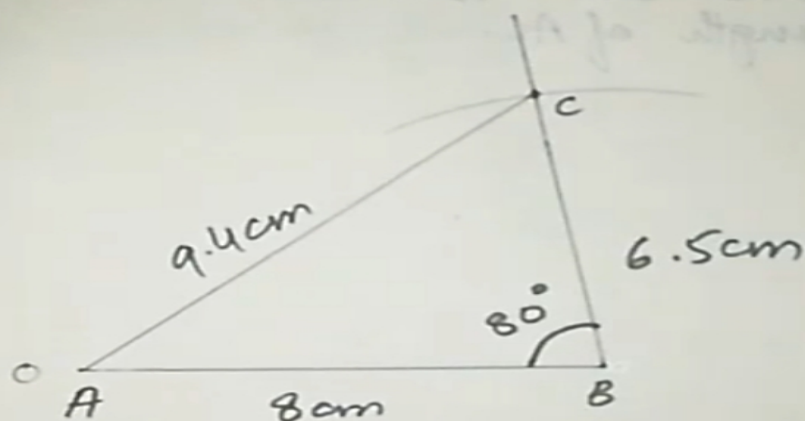


### Construction:

- 1) Using a ruler and a protector, draw an angle  $\hat{BAC}$  of  $56^\circ$ .
- 2) With A as centre and suitable fixed radius, draw an arc to cut AB at P and AC at Q.
- 3) With P as a centre with suitable radius, draw an arc 1.
- 4) Using the same radius with Q as centre draw arc 2 to cut arc 1 at R.
- 5) Join AR.
- 6) AR is the angle bisector of  $\hat{BAC}$  where  $\hat{BAR} = \hat{CAR}$ .



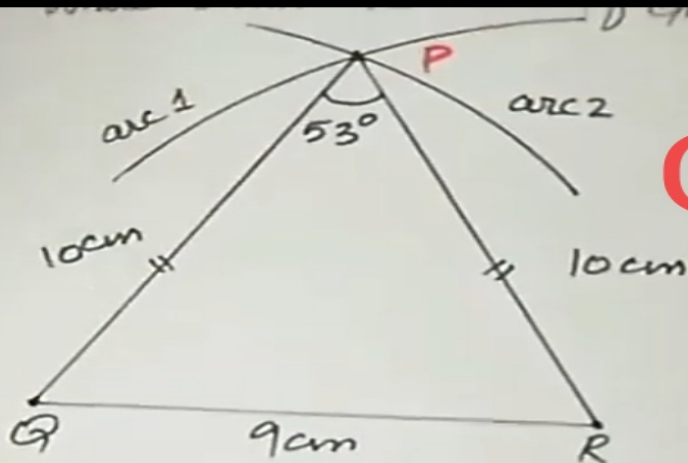
Q3: Construct  $\triangle ABC$  such that  $AB = 8\text{ cm}$ ,  $BC = 6.5\text{ cm}$  and  $\hat{ABC} = 80^\circ$ . Measure and write down the length of  $AC$ .



Construction:

- 1) Using a ruler draw a line segment  $AB$  of  $8\text{ cm}$ .
- 2) Using a protector draw an angle of  $80^\circ$  at  $B$ .
- 3) Using a compass draw an arc of  $6.5\text{ cm}$  on  $BC$

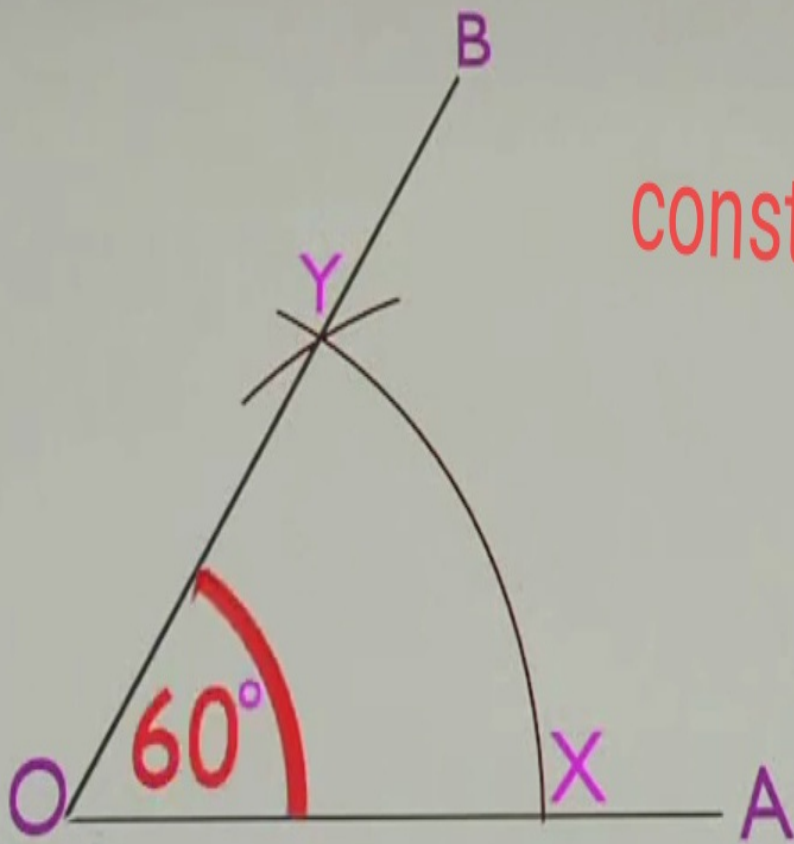
5) The length of  $AC$  is  $9.4\text{ cm}$ .



# Q#5

### Construction:

- 1) Draw a line segment QR 9cm.
- 2) Using R as the centre point draw an arc 1 of 10cm and using Q as the centre point draw an arc 2 of 10cm.
- 3) Give a Name P where arc 1 & arc 2 are intersecting with each other.
- 4) Join Q to P and R to P
- 5) By placing the protractor on PR measure the  $\angle P$
- 6)  $\angle P = 53^\circ$



construct angle of  $60^\circ$

Construct angle of 45'



Exercise # 1211

Q8: Construct  $\triangle ABC$  Such  $AB = 9.8 \text{ cm}$ ,  $BC = 6.5 \text{ cm}$  and  $\hat{A}BC = 88^\circ$

- (i) Measure and write down the length of  $AC$ .
- (ii) Construct the Perpendicular bisector of  $AB$  such that it cuts  $AC$ . Measure and write down the length of  $BS$ , such that  $S$  is the point where the perpendicular bisector of  $AB$  cuts  $AC$ .

Solution:

