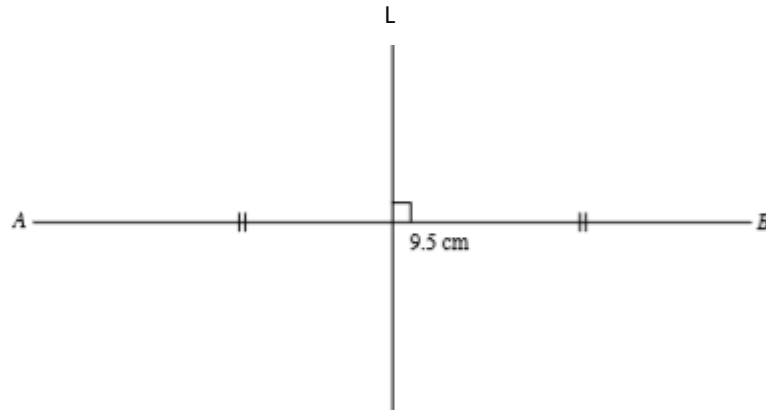


Chapter 12: Geometrical Constructions

Ex-12(A)-Page 305

Q1. Draw a line segment AB of length 9.5cm. Construct the perpendicular bisector of AB.



STEPS: (i) Draw a line segment of length 9.5cm using a ruler and name as AB.

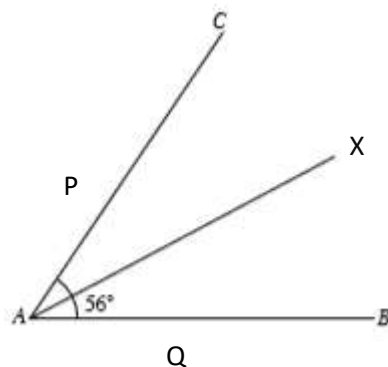
(ii) Adjust the arm of compass more than half of the length of the drawn line (ie; greater than 5cm approx.) and cut two arcs from the point A on top and bottom of the line.

(iii) Use the same radius and do the same from B.

(iv) Join the points got on top and bottom using a ruler.

(v) Line L, is the required perpendicular bisector of AB.

Q2. Draw an angle BAC of 56° . Construct the angle bisector of \angle BAC.



Steps: (i) Draw angle 56° using protractor and name it as BAC.

(ii) With A as centre and a suitable radius, draw an arc to cut AC and AB at points P and Q respectively.

(iii) With P as centre, and use any other radius, draw an arc and do the same from Q to cut the previous drawn arc at X.

(iv) Join the points A and X and AX is the required angle bisector.