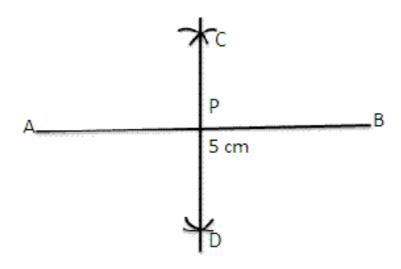


Exercise 12A

Question 1:

Steps of Construction:

- (i) Draw a line segment AB = 5 cm
- (ii) With A as centre and radius equal to more than half of AB, draw two arcs, one above AB and the other below AB.
- (iii) With B as a centre and the same radius draw two arcs which cuts the previously drawn arcs at C and D.
- (iv) Join CD, intersecting AB at point P.
- \therefore CD is the perpendicular bisector of AB at the point P.



Question 2:

Step of Construction:

- (i) Draw a line segment OA.
- (ii) AT A, draw ∠AOE=90°, using ruler and compass.
- (iii) With B as centre and radius more than half of BD, draw an arc.
- (iv) With D as centre and same radius draw another arc which cuts the previous arc at F.
- (v) Join OF. ∴ ∠AOF=45°.
- (vi) Now with centre B and radius more than half of BC, draw an arc.
- (vii) With centre C and same radius draw another arc which cuts the previously drawn arc at X.
- (viii) Join OX. \therefore OX is the bisector of \angle AOF.

