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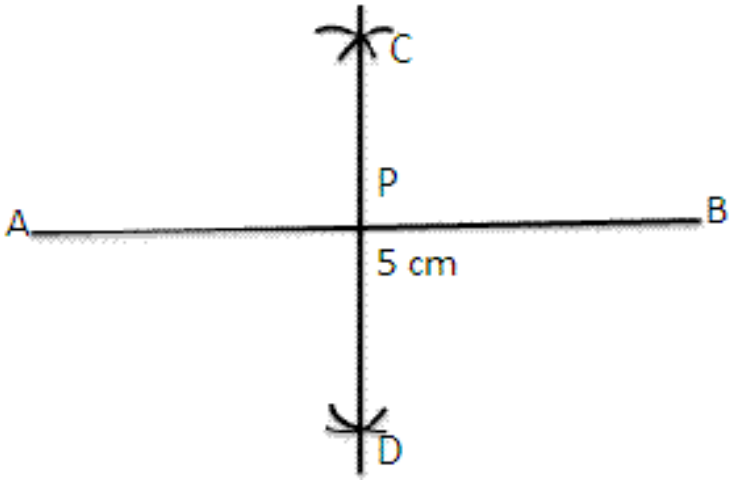
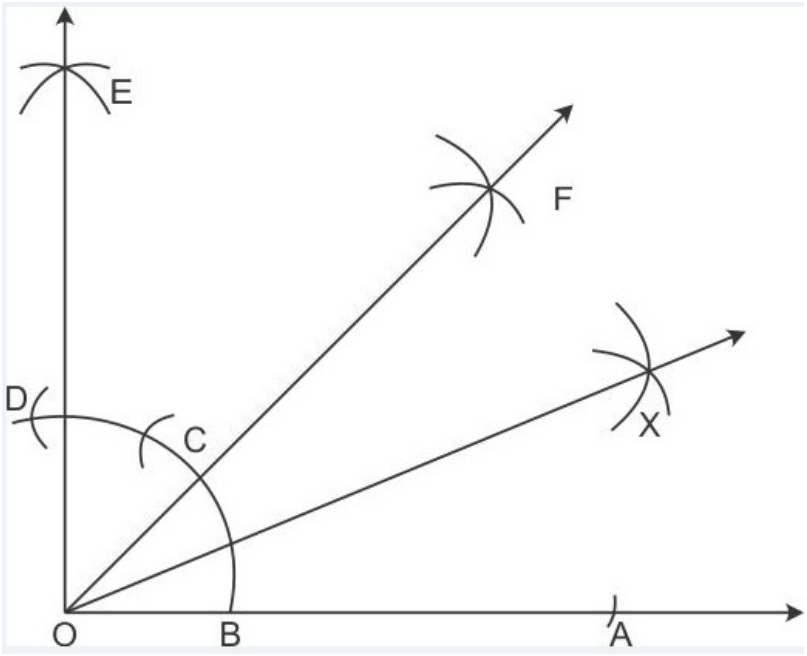
Exercise 12A

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.
∴ 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. ∴ OX is the bisector of ∠AOF.



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