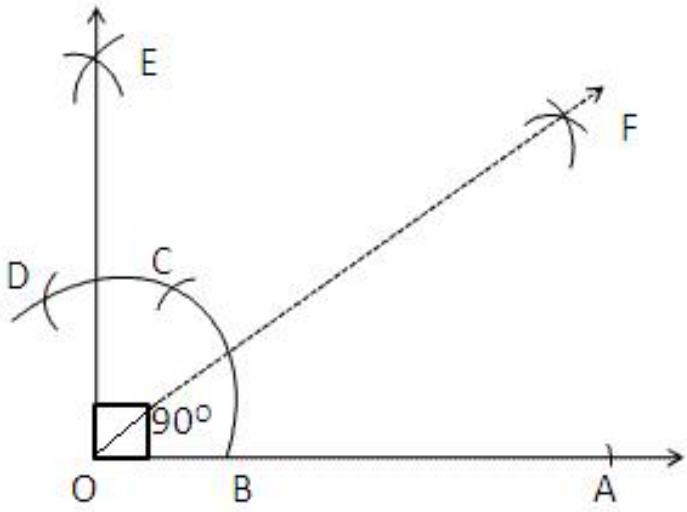
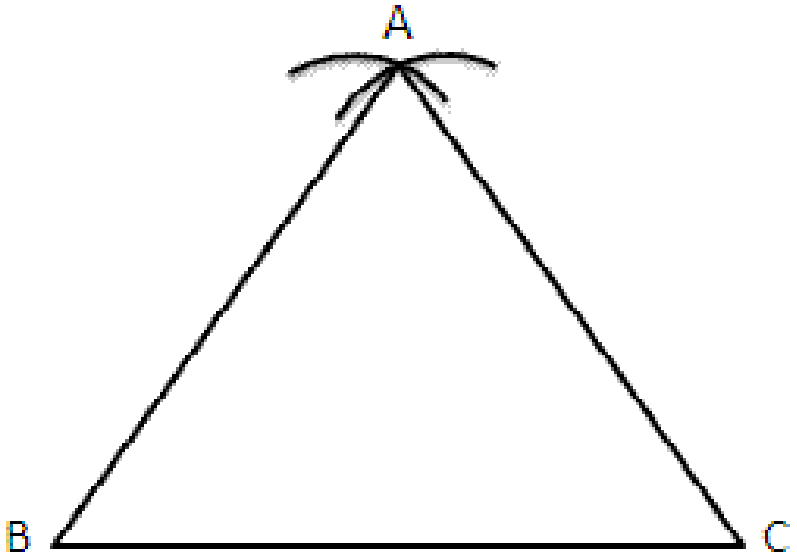
Exercise 12A

Question 3:
Step of Construction:
(i) Draw a line segment OA.
(ii) With O as centre and any suitable radius draw an arc, cutting OA at B.
(iii) With B as centre and the same radius cut the previously drawn arc at C.
(iv) With C as centre and the same radius cut the arc at D.
(v) With C as centre and the radius more than half CD draw an arc.
(vi) With D as centre and the same radius draw another arc which cuts the previous arc at E.
(vii) Join E Now, ∠AOE =90°
(viii) Now with B as centre and radius more than half of CB draw an arc.
(iv) With C as centre and same radius draw an arc which cuts the previous at F.
(x) Join OF.
(xi) ∴ F is the bisector of right ∠AOE.



Question 4:
Step of construction:
(i) Draw a line segment BC=5cm.
(ii) With B as centre and radius equal to BC draw an arc.
(iii) With C as centre and the same radius draw another arc which cuts the previous arc at A.
(iv) Join AB and AC.
Then ΔABC is the required equilateral triangle.



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