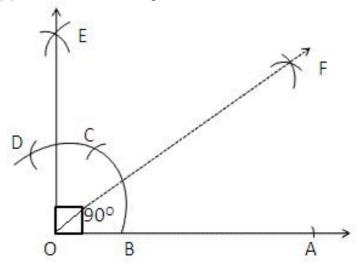


Exercise 12A

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 $\mathsf{C}.$
- (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) \therefore F is the bisector of right \angle 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 Δ ABC is the required equilateral triangle.

