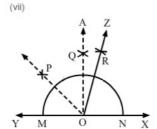


Exercise 14B



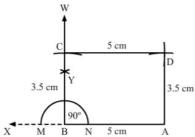
Steps for construction:

- 1. Draw a line XY and take a point O.
- 2. With O as the centre and any convinient radius, draw an arc cutting XY at M and N.
- 3. With N as the centre and the same radius, draw an arc.
- 4. With M as the centre and the same radius as before, draw another arc cutting the previously drawn arc at Q.
- 5. Draw QO.
- 6. Draw PO bisector of ∠YOA.
- Draw ZO bisector of ∠POX.
- :. \( XAZ = 67.5°

## Q5

## Answer:

Construction steps:

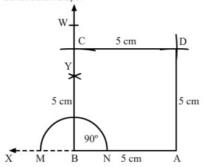


- 1. Draw a ray AX.
- 2. With A as the centre, cut the ray AX at B such that AB is equal to 5 cm.
- 3. With B as the centre and any convenient radius, draw an arc cutting AX at M and N.
- 4. With N as the centre and radius more than half of MN, draw an arc.
- 5. With M as the centre and the same radius as before, draw another arc to cut the previous arc at Y.
- 6. Draw BY and produce it to W.
- 7. With B as the centre and a radius of 3.5 cm, cut ray BW at point C.
- 8. With C as the centre and a radius of 5 cm, draw an arc on the right side of BC.
- 9. With A as the centre and a radius of 3.5 cm, draw an arc cutting the previous arc at D.
- 10. Join CD and AD.

ABCD is the required rectangle.

## Answer:

Construction steps:



- 1. Draw a ray AX.
- 2. With A as centre cut the ray AX at B such that AB=5 cm
- 3. With B as centre and any convenient radius, draw an arc cutting AX at M and N.
- 4. With N as centre and radius more than half of MN draw an arc.
- 5. With M as centre and the same radius as before, draw another arc to cut the previous arc at Y.
- 6. Join BY and produced it to W.
- 7. With B as centre and radius 5 cm cut ray BW at point C.
- 8. With C as centre and radius 5 cm draw an arc on right side of BC.
- 9. With A as centre and  $\,$  radius 5 cm draw an arc cutting the previous arc at D.
- 10.Join CD and AD.

ABCD is required square.

\*\*\*\*\*\*\*\*\* END \*\*\*\*\*\*\*