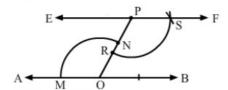


Exercise 14A

# Q8

### Answer:

Steps for construction:



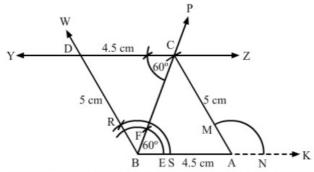
- 1. Draw a line AB.
- 2. Take a point P outside AB and another point O on AB.
- 3. Draw PO.
- 4. Draw ZFPO such that ZFPO is equal to AOP.
- 5. Extend FP to E.

Then, the line EF passes through the point P and EF||AB.

# Q9

### Answer:

Steps for construction:

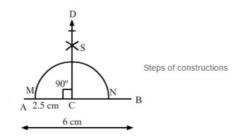


- 1. Draw a line BX and take a point A, such that AB is equal to 4.5 cm.
- 2. Draw  $\angle$ ABP = 60 $^{\circ}$  with the help of protractor.
- 3. With A as the centre and a radius of 5 cm, draw an arc cutting PB at C.
- 4. Draw AC.
- 5. Now, draw ∠BCY = 60°.
- 6. Then, draw ∠ABW, such that ∠ABW is equal to ∠CAX, which cut the ray CY at D.
- 7. Draw BD.

When we measure BD and CD, we have:

BD = 5 cm and CD = 4.5 cm

#### Answer:

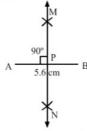


- 1. Draw a line segment AB, which is equal to 6 cm.
- 2. Take a point C on AB such that AC is equal to 2.5 cm.
- 3. With C as the centre, draw an arc cutting AB at M and N.
- 4. With M as the centre and radius more than half of MN, draw an arc.
- 5. With N as the centre and the same radius as before, draw another arc cutting the perviously drawn arc at S.
- 6. Draw SC and produce it to D.

## Q11

#### Answer:

Steps for construction:



- 1. Draw a line segment AB, which is equal to 5.6 cm.
- 2. With A as the centre and radius more than half of AB, draw arcs, one on each side of AB.
- 3. With B as the centre and the same radius as before, draw arcs cutting the perviously drawn arcs at M and N, respectively.
- 4. Draw MN, meeting AB at R.

