Practical Geomentry (constructions) Ex 18.4 Q5

Answer:

Steps of construction:

Step I: Draw AB = 4.4 cm.

Step II: Construct ∠BAD = 125° at A.

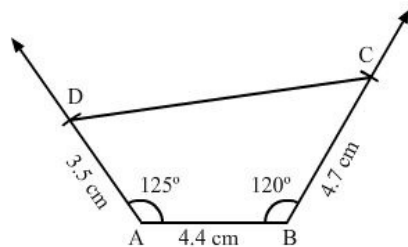Step III: With A as the centre and radius 3.5 cm, cut off AD = 3.5 cm.

Step IV: Construct ∠ABC = 120° at B.

Step V: With B as the centre and radius 4.7 cm, cut off BC = 4.7 cm.

Step VI: Join CD.

The quadrilateral so obtained is the required quadrilateral.

Practical Geomentry (constructions) Ex 18.4 Q6

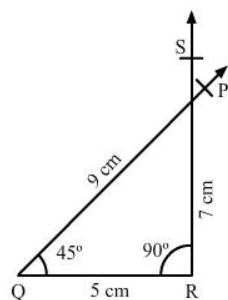**Answer:**

Steps of construction:

Step I: Draw QR = 5 cm.

Step II: Construct ∠PQR = 45° at Q.

Step III: With Q as the centre and radius 9 cm, cut off QP = 9 cm.

Step IV: Construct ∠QRS = 90° at R.

Step V: With R as the centre and radius 7 cm, cut off RS = 7 cm.

Since, the line segment PQ and RS intersect each other, the quadrilateral cannot be constructed.

Practical Geomentry (constructions) Ex 18.4 Q7

Answer:

Steps of construction :
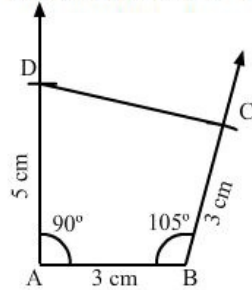Step I : Draw AB = 3 cm.
Step II : Construct ∠DAB = 90° at A.
Step III : With A as the centre and radius 5 cm, cut off AD = 5 cm.
Step IV : Construct ∠ABC = 105° at B.
Step V : With B as the centre and radius 3 cm, cut off BC = 3 cm.
Step VI : Join CD.
The quadrilateral so obtained is the required quadrilateral.

Practical Geomentry (constructions) Ex 18.4 Q8

Answer:

Steps of construction :
Step I : Draw EF = 3.5 cm.
Step II : Construct ∠DEF = 100° at E.
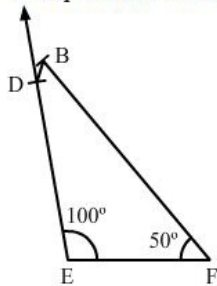Step III : With E as the centre and radius 4.5 cm, cut off DE = 4.5 cm.
Step IV : Construct ∠EFB = 50° at F.
Step V : With F as the centre and radius 6.5 cm, cut off FB = 6.5 cm.
Step VI : Join BD.
The quadrilateral so obtained is the required quadrilateral.

********** END *********