



Practical Geomentry (constructions) Ex 18.4 Q5

Answer :

Steps of construction :

Step I : Draw $AB = 4.4$ cm.

Step II : Construct $\angle BAD = 125^\circ$ at A.

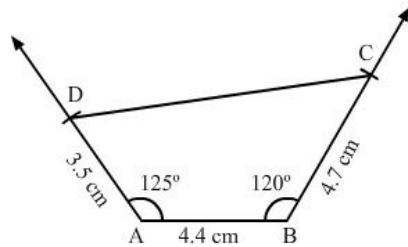
Step III : With A as the centre and radius 3.5 cm, cut off $AD = 3.5$ cm.

Step IV : Construct $\angle ABC = 120^\circ$ 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.

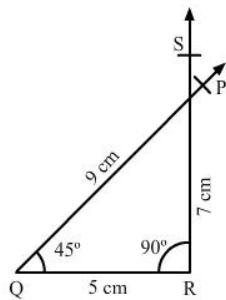
Step II : Construct $\angle PQR = 45^\circ$ at Q.

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

Step IV : Construct $\angle QRS = 90^\circ$ 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 $\angle DAB = 90^\circ$ at A.

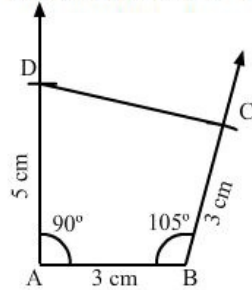
Step III : With A as the centre and radius 5 cm, cut off $AD = 5$ cm.

Step IV : Construct $\angle ABC = 105^\circ$ 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 $\angle DEF = 100^\circ$ at E.

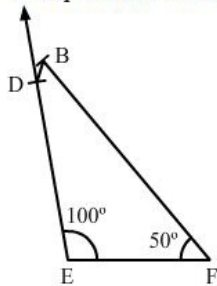
Step III : With E as the centre and radius 4.5 cm, cut off $DE = 4.5$ cm.

Step IV : Construct $\angle EFB = 50^\circ$ 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.



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