Practical Geomentry (constructions) Ex 18.5 Q4

Answer:

We know that the sum of all the angles in a quadrilateral is 360.
i.e., $\angle A + \angle B + \angle C + \angle D = 360°$
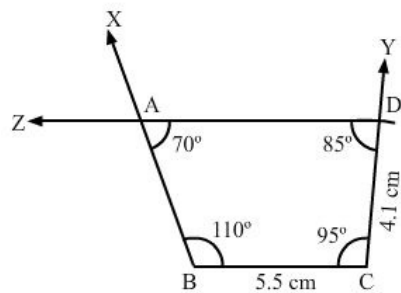$\Rightarrow \angle C = 95°$

Steps of construction:

Step I: Draw $BC = 5.5$ cm.

Step II: Construct $\angle XBC = 110°$ at A and $\angle BCY = 95°$.

Step III: With C as the centre and radius 4.1 cm, cut off $CD = 4.1$ cm.

Step IV: At D, draw $\angle CDZ = 85°$ such that it meets BY at A.

The quadrilateral so obtained is the required quadrilateral.

Practical Geomentry (constructions) Ex 18.5 Q5

Answer:

We know that the sum of all the angles in a quadrilateral is 360.
i.e., $\angle A + \angle B + \angle C + \angle D = 360°$
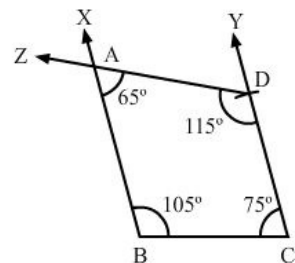$\Rightarrow \angle D = 115°$

Steps of Construction:

Step I: Draw $BC = 5.7$ cm.

Step II: Construct $\angle XBC = 105°$ at B and $\angle BCY = 105°$ at C.

Step III: With C as the centre and radius 6.8 cm, cut off $CD = 6.8$ cm.

Step IV: At D, draw $\angle CDZ = 115°$ such that it meets BY at A.

The quadrilateral so obtained is the required quadrilateral.

Practical Geomentry (constructions) Ex 18.5 Q6
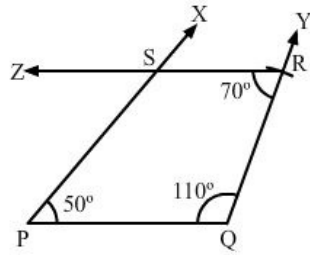
Answer:

Steps of construction :

Step I : Draw PQ = 4 cm.

Step II : Construct ∠XPQ = 50° at P and ∠PQY = 110° at Q.

Step III : With Q as the centre and radius 5 cm, cut off QR = 5 cm.

Step IV : At R, draw ∠QRZ = 70° such that it meets PX at S.

The quadrilateral so obtained is the required quadrilateral.

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