

EXERCISE 4.4

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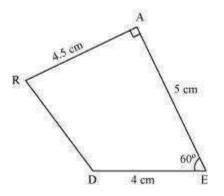
- 1. Construct the following quadrilaterals,
- (i) Quadrilateral DEAR DE = 4 cm
- $\mathbf{EA} = 5 \operatorname{cm} \mathbf{AR}$
- = **4.5** cm

 $\angle E = 60^{\circ}$

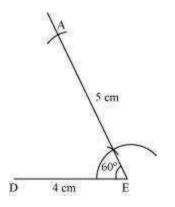
 $\angle A = 90^{\circ}$

Solution:

Rough Figure:



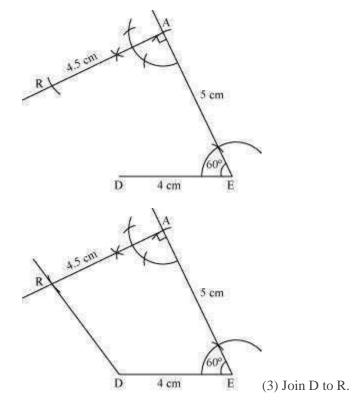
(1) Draw a line segment DE of 4 cm and an angle of 60° at point E. As vertex A is 5 cm away from vertex E, cut a line segment EA of 5 cm from this ray.



(2) Again, draw an angle of 90° at point A. As vertex R is 4.5 cm away from vertex A, cut a line segment RA of 4.5 cm from this ray.



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DEAR is the required quadrilateral.

(*ii*) *Quadrilateral TRUE TR* = 3.5 cm

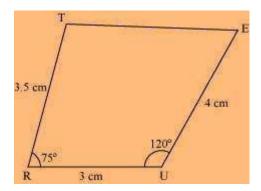
RU = 3 cm UE = 4 cm

 $\angle \mathbf{R} = 75^{\circ}$

∠U = 120°

Solution:

Rough Figure:

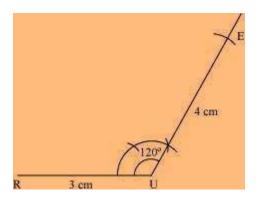


(1) Draw a line segment RU of 3 cm and an angle of 120° at point U. As vertex E is 4 cm away from vertex U, cut a line segment UE of 4 cm from this ray.

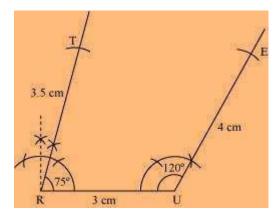
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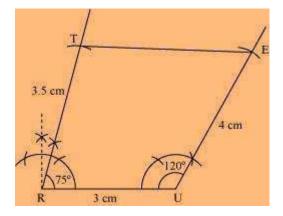
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(2) Next, draw an angle of 75° at point R. As vertex T is 3.5 cm away from vertex R, cut a line segment RT of 3.5 cm from this ray.



(3) Join T to E.



TRUE is the required quadrilateral.