Mathematics

Chapter 4: Practical Geometry, Class 9



CLASS NOTES-ANSWERS

EXERCISE 4.4

- 1. Construct the following quadrilaterals.
 - (i) Quadrilateral DEAR(ii) Quadrilateral TRUEDE = 4 cmTR = 3.5 cmEA = 5 cmRU = 3 cmAR = 4.5 cmUE = 4 cm $\angle E = 60^{\circ}$ $\angle R = 75^{\circ}$ $\angle A = 90^{\circ}$ $\angle U = 120^{\circ}$

5 cm

Answer:

(i) <u>Rough sketch:</u>



Steps of construction:

D

4 cm

4.5 cm

- 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.
- 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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- Join D to R.
- DEAR is the required quadrilateral.



(ii) <u>Rough sketch:</u>



Steps of construction:

- 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.
- 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.
- Join T to E.

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• TRUE is the required quadrilateral.







