

**CBSE Class –VIII Mathematics**  
**NCERT Solutions**  
**CHAPTER - 4**  
**Practical Geometry (Ex. 4.4)**

**1. Construct the following quadrilaterals:**

**(i) Quadrilateral DEAR**

**DE = 4 cm, EA = 5 cm, AR = 4.5 cm,  $\angle E = 60^\circ$ ,  $\angle A = 90^\circ$**

**(ii) Quadrilateral TRUE**

**TR = 3.5 cm, RU = 3 cm, UE = 4 cm,  $\angle R = 75^\circ$ ,  $\angle U = 120^\circ$**

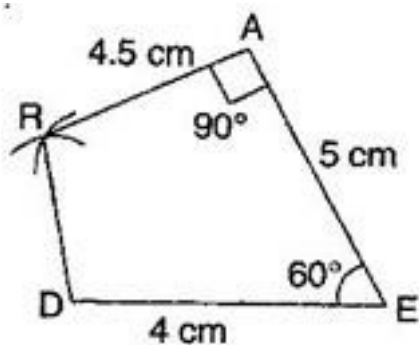
**Ans: (i) Given:** DE = 4 cm, EA = 5 cm, AR = 4.5 cm,  $\angle E = 60^\circ$ ,  $\angle A = 90^\circ$

**To construct:** A quadrilateral DEAR

**Steps of construction:**

- (a) Draw a line segment DE = 4 cm.
- (b) At point E, construct an angle of  $60^\circ$ .
- (c) Taking radius 5 cm, draw an arc from point E which intersects at A.
- (d) Construct  $\angle A = 90^\circ$ , draw an arc of radius 4.5 cm with centre A which intersect at R.
- (e) Join RD.

It is the required quadrilateral DEAR.



**(ii) Given:** TR = 3.5 cm, RU = 3 cm, UE = 4 cm,  $\angle R = 75^\circ$ ,  $\angle U = 120^\circ$

**To construct:** A quadrilateral TRUE

**Steps of construction:**

- (a) Draw a line segment  $TR = 3.5$  cm.
- (b) Construct an angle  $75^\circ$  at R and draw an arc of radius 3 cm with R as centre, which intersects at U.
- (c) Construct an angle of  $120^\circ$  at U and produce the side UE.
- (d) Draw an arc of radius 4 cm with U as centre.
- (e) Join UE and TE.

It is the required quadrilateral TRUE.

