



NCERT Solutions for class 8 Maths chapter 4 Practical Geometry Ex-4.4

**Q1. 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,

$\angle R = 75^\circ$ ,  $\angle U = 120^\circ$

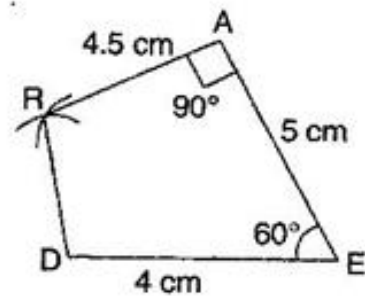
**Ans.**

**(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.

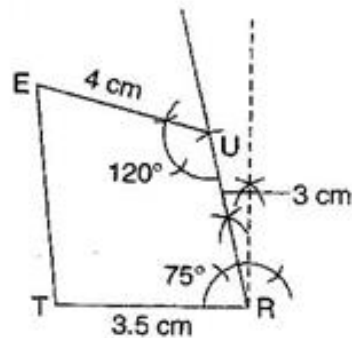
It is the required quadrilateral DEAR.

**(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.

\*\*\*\*\* END \*\*\*\*\*