## EXERCISE 4.4

1. Construct the following quadrilaterals,
(i) Quadrilateral DEAR DE $=4 \mathrm{~cm}$

EA $=\mathbf{5} \mathbf{c m}$ AR
$=4.5 \mathrm{~cm}$
$\angle \mathrm{E}=60^{\circ}$
$\angle A=90^{\circ}$

## Solution:

Rough Figure:

(1) Draw a line segment DE of 4 cm and an angle of $60^{\circ}$ 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 $90^{\circ}$ 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.

(3) Join D to R.

DEAR is the required quadrilateral.
(ii) Quadrilateral TRUE TR $=3.5 \mathrm{~cm}$
$\mathrm{RU}=3 \mathrm{~cm} \mathrm{UE}=4 \mathrm{~cm}$
$\angle \mathrm{R}=75^{\circ}$
$\angle \mathrm{U}=12 \mathbf{0}^{\circ}$
Solution:
Rough Figure:

(1) Draw a line segment $R U$ of 3 cm and an angle of $120^{\circ}$ at point $U$. As vertex $E$ is 4 cm away from vertex U , cut a line segment UE of 4 cm from this ray.

(2) Next, draw an angle of $75^{\circ}$ at point $R$. As vertex $T$ is 3.5 cm away from vertex $R$, cut a line segment $R T$ of 3.5 cm from this ray.

(3) Join T to E.


TRUE is the required quadrilateral.

