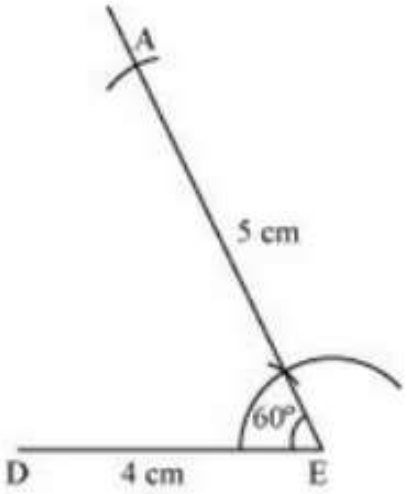
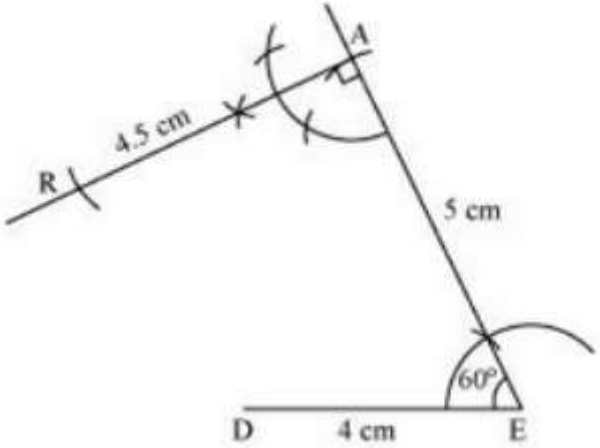
Practical Geometry - Exercise 4.4

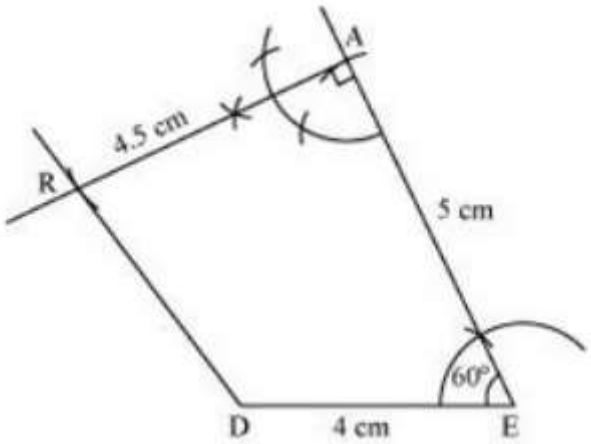
Q.1 Construct the following quadrilaterals.
(i) Quadrilateral DEAR
DE = 4 cm
EA = 5 cm
AR = 4.5 cm
∠E = 60°
∠A = 90°
***Sol.* Steps for Construction:**
Step 1: Firstly, draw a line segment DE = 4 cm with help of pencil and ruler.
Step 2: Now, Make an angle of 60° at point E with help of compass.
Step 3: Take point E as centre and mark an arc EA of radius 5 cm from this ray.



Step 4: Make an angle of 90° at point A with help of compass.
Step 5: Now, take A as centre and mark an arc of radius 4.5 on this ray.

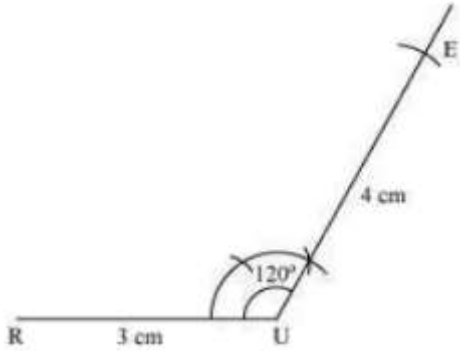


Step 6: Join DR.

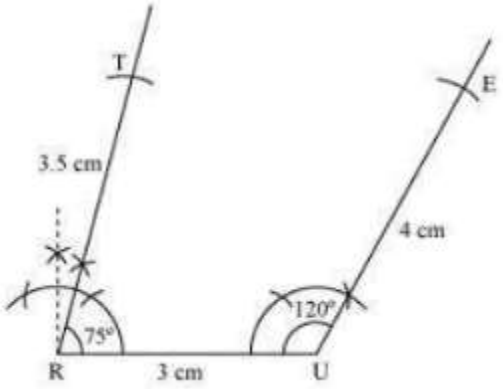


Thus, DEAR is the required quadrilateral.

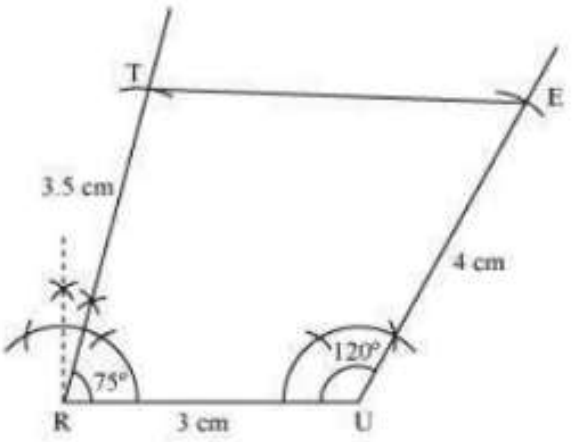
(ii) Quadrilateral TRUE
TR = 3.5 cm
RU = 3 cm
UE = 4 cm
∠R = 75°
∠U = 120°
***Sol.* Steps for Construction:**
Step 1: Firstly, draw a line segment RU = 3 cm with help of pencil and ruler.
Step 2: Now, make angle of 120° at point U with help of compass.
Step 3: Take point U as centre and mark an arc UE of radius 4 cm.



Step 4: Now, draw an angle of 75° at point R with help of compass.
Step 5: Take point R as centre and mark an arc RT of 3.5 cm on this ray.



Step 6: Now, join TE.



Thus, TRUE is the required angle.