

Assignment 8

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Question 2.42:

Construct ABCD, where $AB = 4$, $BC = 5$, $CD = 6.5$, $\angle B = 105^\circ$, $\angle C = 80^\circ$.

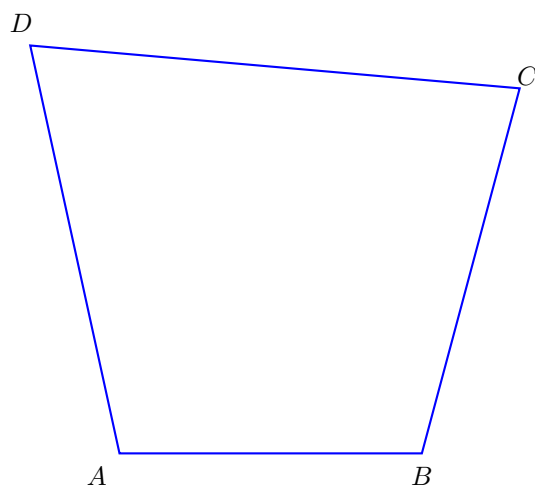
Solution:

Given, $AB=4$, $BC=5$, $CD=6.5$, $\angle B=105^\circ$, $\angle C = 80^\circ$.

Now,

Steps of Construction.

- 1: Draw a line $AB=4$ cm.
- 2: From point B draw a line $BC= 5$ cm such that $\angle ABC=105^\circ$.
- 3: From point C draw a line $CD= 6.5$ cm such that $\angle BCD=80^\circ$.
- 4: Join DA and we get required ABCD.



Question 2.43:

Construct DEAR with $DE = 4$, $EA = 5$, $AR = 4.5$, $\angle E = 60^\circ$, $\angle A = 90^\circ$.

Solution:

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

Now,

Steps of Construction.

- 1: Draw a line $DE=4$ cm.
- 2: From point E draw a line $EA= 5$ cm such that $\angle DEA=60^\circ$.
- 3: From point A draw a line $AR= 4.5$ cm such that $\angle EAR=90^\circ$.
- 4: Join RD and we get required DEAR.

