

Assignment No.

Your Name

Download all python codes from

[https://github.com/Vallidevibolla/Assignment-3/
new/main](https://github.com/Vallidevibolla/Assignment-3/new/main)

and latex-tikz codes from

[https://github.com/Vallidevibolla/Assignment-3/
new/main](https://github.com/Vallidevibolla/Assignment-3/new/main)

Question taken from

[https://github.com/gadepall/ncert/blob/main/linalg/
construction/gvv_ncert_constr.pdf](https://github.com/gadepall/ncert/blob/main/linalg/construction/gvv_ncert_constr.pdf) – Q.no.2.6

1 QUESTION No.2.6

Can you construct $\triangle DEF$ such that $EF = 7.2\text{cm}$, $\angle E = 110^\circ$ and $\angle F = 80^\circ$

2 SOLUTION

We know that sum of angles of triangle are equal to 180°

But here

$$\angle E + \angle F = 110^\circ + 80^\circ \implies 190^\circ$$

i.e., greater than 180°

Since sum of two angles cannot be greater than 180°

$\triangle DEF$ is not possible