

Assignment No.

Your Name

Download all python codes from

<https://github.com/Vallidevibolla/Assignment-3/new/main>

and latex-tikz codes from

<https://github.com/Vallidevibolla/Assignment-3/new/main>

Question taken from

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

$$\therefore \angle E + \angle F = 110^\circ + 80^\circ \implies 190^\circ \quad (2.0.1)$$

i.e., greater than 180°

Since sum of two angles cannot be greater than 180°

$\therefore \triangle DEF$ is not possible