Assignment - 3

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Download all and latex-tikz codes from

svn co https://github.com/Ganeshyadav712/ Assignment-3.git

Question taken from

https://github.com/gadepall/ncert/blob/main/linalg/ construction/gvv_ncert_constr.pdf- example 2.9

1 Question

Can you constrict the quadrilateral PLAN if PL = 6, LA = 9.5, $\angle P = 75^{\circ}$, $\angle L = 150^{\circ}$ and $\angle A = 140^{\circ}$?

2 solution

The given information can be expressed as

$$\angle P = 75^{\circ} \tag{1}$$

$$\angle L = 150^{\circ} \tag{2}$$

$$\angle A = 140^{\circ} \tag{3}$$

$$||P - L|| = 6 \tag{4}$$

$$||L - A|| = 9.5 \tag{5}$$

As we know the sum of the measures of the four angles of a quadrilateral is 360° but here,

$$\angle P + \angle L + \angle A = 365^{\circ}$$

hence it is not possible to construct the quadrilateral with above data.

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