2 different lengths l_1 and l_2, suppose $\boxed{\dfrac{3}{2} l_2 < l_1}$

$l_1 \longrightarrow$

$\begin{pmatrix} 1 \\ 0 \\ 0 \end{pmatrix}$ $(1/2, 0, 0)$ $(0, 1/2, 0)$ $\begin{pmatrix} 0 \\ 1 \\ 0 \end{pmatrix}$

$(1/2, 1/2, 0)$ $\uparrow l_2$

$(-1/2, 0, 0)$ $(1/2, 0, 0)$

$\begin{pmatrix} 0 \\ 1/2 \\ 0 \end{pmatrix}$

$(0, -1/2, 0)$

$\begin{pmatrix} -1/2 \\ -1/2 \\ 0 \end{pmatrix}$ $\begin{pmatrix} -1/2 \\ -1/2 \\ 0 \end{pmatrix}$

$\begin{pmatrix} -1 \\ -1 \\ 0 \end{pmatrix}$
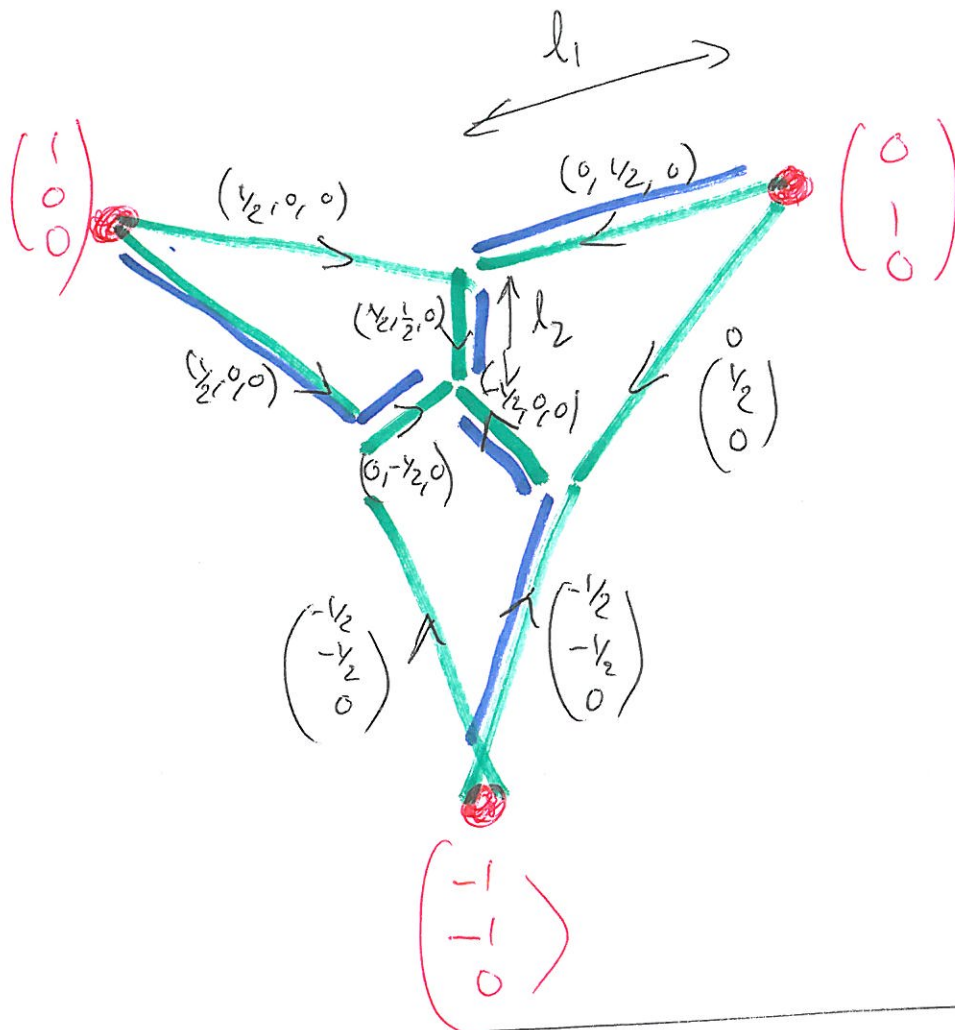
$$\text{Optimal cost} = 3l_1 + \frac{3}{2} l_2 \; ?$$

Remarks : $< 3l_1 + 3l_2$ and

and $< 4l_1$