$$A = \begin{pmatrix} 1 & -1 & 1 \\ -1 & 5 & -5 \\ 1 & -5 & 6 \end{pmatrix}$$

aprilmo:

$$li,1 = \frac{ai,1}{ln}, i \pi 2$$

$$l_{K,K} = \sqrt{a_{KK} - \sum_{r=1}^{K-1} l_{KY}^2}, \ k \ 72$$

- 1) Simeture
- 2) $2g_1 moda for tim > i) |1| = 170$ ii) |1 - 1| = 470

On A es agricula prition y podems haver A = LLT.

Entomes

$$l_{rr} = \sqrt{1} = 1$$

$$l_{21} = -\frac{1}{1} = -1$$

$$L_{31} = \frac{1}{1} = 1$$

$$122 = \sqrt{5 - (-1)^2} = 2$$

$$l_{32} = -\frac{5-1(-1)}{2} = -2$$

$$133 = \sqrt{6-1-(-2)^2} = 1$$

$$L = \begin{pmatrix} 1 & 0 & 0 \\ -1 & 2 & 0 \\ 1 & -2 & 1 \end{pmatrix}$$

$$LL^{T} = A \Rightarrow \begin{pmatrix} 1 & 0 & 0 \\ -1 & 2 & 0 \\ 1 & -2 & 1 \end{pmatrix} \begin{pmatrix} 1 & -1 & 1 \\ 0 & 2 & -2 \\ 0 & 0 & 1 \end{pmatrix} = \begin{pmatrix} 1 & -1 & 1 \\ -1 & 5 & -5 \\ 1 & -5 & 6 \end{pmatrix}$$