

$$A = \left( \begin{array}{ccc|c} \boxed{1} & 5 & 9 & \\ -5 & -24 & -44 & L_2 + 5L_1 \\ -3 & -14 & -25 & L_3 + 3L_1 \end{array} \right)$$

$$I_3 = \left( \begin{array}{ccc} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{array} \right)$$

$6L_m$

$SL_m$

$$\left( \begin{array}{ccc|c} 1 & 5 & 9 & \\ 0 & \boxed{1} & 1 & \\ 0 & 1 & 2 & L_3 - L_2 \end{array} \right)$$

$$\left( \begin{array}{ccc} 1 & 0 & 0 \\ 5 & 1 & 0 \\ 3 & 0 & 1 \end{array} \right)$$

$$\left( \begin{array}{ccc|c} 1 & 5 & 9 & L_4 - 5L_3 \\ 0 & 1 & 1 & L_2 - L_3 \\ 0 & 0 & \boxed{1} & \end{array} \right)$$

$$\left( \begin{array}{ccc} 1 & 0 & 0 \\ 5 & 1 & 0 \\ -2 & -1 & 1 \end{array} \right)$$

$$\left( \begin{array}{ccc|c} 1 & \boxed{5} & 0 & L_1 - 5L_2 \\ 0 & 1 & 0 & \\ 0 & 0 & 1 & \end{array} \right)$$

$$\left( \begin{array}{ccc} 1 & 5 & -5 \\ 7 & 2 & -1 \\ -2 & -1 & 1 \end{array} \right)$$

$$\sim I_3$$

$$A^{-1} = \begin{pmatrix} -16 & -1 & -4 \\ 7 & 2 & -1 \\ -2 & -1 & 1 \end{pmatrix}$$

matrice de transvect: on

$$\underline{L_i \leftarrow L_i + \lambda L_j} \quad T_{ij}(\lambda) = I + \lambda E_{ij}$$

$$E_{ij} = \begin{pmatrix} 0 & \cdots & 1 & \cdots \\ \vdots & & & \\ 0 & \cdots & 0 & \cdots \end{pmatrix}$$