$$A^{(0)} = \begin{bmatrix} 4 & -a & 1 \\ -a & 4 & -a \end{bmatrix} \quad \begin{array}{c} pinio = a_{11} = 4 \\ m \cdot a = -\frac{1}{2} \\ 1 & -a \end{bmatrix} \quad 4$$

$$L_{2} \leftarrow L_{2} - mL_{2} \times L_{1}$$

$$-2 - (-1/2) \times 4 = 0$$

$$4 - (-1/2) \times -2 = 3$$

$$-2 - (-1/2) \times 1 = -3$$

$$\begin{array}{c} L_{3} \leftarrow L_{3} - mL_{3} \times L_{1} \\ 1 - 1/4 \times 4 = 0 \\ - 2 - 1/4 \times -2 = -3/2 \\ 4 - 1/4 \times 1 = 15/4 \end{array}$$

$$A^{(4)} = \begin{bmatrix} 4 & -2 & 1 \\ 0 & 3 & -3/2 \\ 6 & -\frac{2}{3} & 15/4 \end{bmatrix}$$

$$2 \ln \delta = n_{22} = 3$$

 $m = \frac{-3}{3} = \frac{-1}{2}$

$$L_3 = L_3 - m L_3 \times L_2$$

 $0 - c - 1/2) \times 0 = 0$
 $-3/2 - (-1/2) \times 3 = 0$
 $15/4 - (-1/2) \times -3/2 = 12/4 = 3$

$$A^{(2)} = \begin{bmatrix} 4 - 2 & 1 \\ 0 & 3 - 3/2 \\ 0 & 0 & 3 \end{bmatrix} = \mathcal{V}$$



