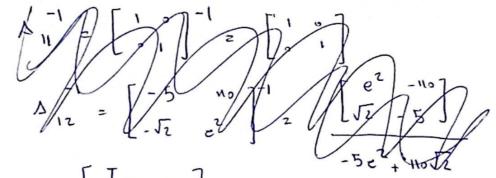
4

$$A = \begin{bmatrix} 1 & 0 & | & -5 & 110 \\ 0 & 1 & | & -\sqrt{2} & e^2 \\ 0 & 0 & | & 0 & | \end{bmatrix} = \begin{bmatrix} I_2 & A_{12} \\ 0 & I_2 \end{bmatrix}$$



$$A A^{-1} = \begin{bmatrix} I_2 & 0 \\ 0 & I_2 \end{bmatrix}$$

$$A^{-1} = \begin{bmatrix} A_{11}^{-1} & A_{12}^{-1} \\ A_{21}^{-1} & A_{22}^{-1} \end{bmatrix}$$

$$\Delta A^{-1} = \begin{bmatrix} A_{11} & A_{12} \\ A_{21} & A_{22} \end{bmatrix} \begin{bmatrix} A_{11} & A_{22} \\ A_{21} & A_{22} \end{bmatrix} \begin{bmatrix} A_{11} & A_{22} \\ A_{21} & A_{22} \end{bmatrix}$$

$$z \begin{bmatrix} A_{11}^{-1} + A_{12} A_{21} & A_{12}^{-1} + A_{12} A_{22} \\ A_{21} & A_{22} \end{bmatrix} z \begin{bmatrix} \overline{1}_{2} & 0 \\ 0 & \overline{1}_{2} \end{bmatrix}$$

$$A_{21}^{-1} = 0 \qquad A_{12} + A_{12} A_{21}^{-1} = 0$$

$$A_{21}^{-1} = I_{2} \qquad A_{11}^{-1} + A_{12} A_{21}^{-1} = I_{2} \qquad A_{11}^{-1} = I_{2}$$

$$\Rightarrow A_{12}^{-1} + A_{12} A_{21}^{-1} = 0 \qquad A_{12}^{-1} = -A_{12}$$

$$\Rightarrow A_{12}^{-1} + A_{12} A_{21}^{-1} = 0 \qquad A_{12}^{-1} = -A_{12}$$

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$$\Rightarrow A_{12}^{-1} + A_{12}^{-1} A_{12}^{-1} = 0 \qquad A_{12}^{-1} = -A_{12}^{-1}$$

$$\Rightarrow A_{12}^{-1} + A_{12}^{-1} A_{12}^{-1} = 0 \qquad A_{12}^{-1} = -A_{12}^{-1} = 0 \qquad A_{12}^{-1} =$$