

Linear Algebra I E2

Tutorial 4

Problem 1

Let

$$A = \begin{bmatrix} 3 & 3 & -5 & 1 \\ 0 & 0 & -1 & 3 \\ 4 & 5 & -7 & -4 \\ 8 & 3 & 9 & 4 \end{bmatrix}$$

Find M_{13} and C_{13}

Problem 2

$$A = \begin{bmatrix} 1 & 0 & 1 & 0 \\ 0 & 1 & 0 & 1 \\ 0 & 4 & 13 & 3 \\ 5 & 5 & 2 & 6 \end{bmatrix}$$

Find A^{-1} .

ANSWERS

Tutorial 4

Problem 1

$$M_{13} = -84$$
$$C_{13} = -84$$

Problem 2

$$\begin{bmatrix} 1.5 & 0.9 & -0.1 & -0.1 \\ 6.5 & 8.7 & -0.3 & -1.3 \\ -0.5 & -0.9 & 0.1 & 0.1 \\ -6.5 & -7.7 & 0.3 & 1.3 \end{bmatrix}$$