

Problem 1

Using the method given in class, find the inverse of

$$A = \begin{bmatrix} 2 & 1 \\ 1 & 1 \end{bmatrix}$$

Problem 2

Using the method given in class, find the inverse of

$$B = \begin{bmatrix} 0 & -1 & 3 \\ 0 & -4 & 1 \\ 2 & -1 & 3 \end{bmatrix}$$

Problem 3

Express the matrices from problems 1 and 2 as a product of elementary matrices.