

Quiz 8

For the matrix $A = \begin{bmatrix} 1 & 1 & 1 \\ 1 & 0 & 1 \\ 2 & 1 & 1 \end{bmatrix}$:

1. Find the elementary matrices $E_1, E_2, \dots, E_n$ such that $E_n \cdots E_2 E_1 A$ is the reduced echelon form of A .
2. Find the matrices $E_n \cdots E_2 E_1 A$ and $E_n \cdots E_2 E_1$.
3. Find A^{-1} , if it exists.