Math 218D

Quiz 1

1. Let A is a 5×3 matrix:

    a) Write down the elementary matrix E which performs the row operation $R_1- = 3R_3$ on A.

    b) Write down the permutation matrix P which performs the row operation $R_2 \longleftrightarrow R_4$ on A.

2. Determine if the following statements are **True** or **False**.

    a) _____ : A $n \times n$ square matrix A in REF with $n-1$ pivots is invertible.

    b) _____ : Is the matrix

$$\begin{pmatrix} 1 & 1 \\ 1 & 0 \end{pmatrix}$$

    invertible?