Linear Algebra, EE 10810/EECS 205004

Quiz 3.1 - 3.4

Integrity: There is NO space to cross the Red Line!!

1. Find the rank of the following matrix:

$$\begin{pmatrix}
1 & 0 & 2 \\
1 & 1 & 4
\end{pmatrix}$$
(1)

2. Express the following invertible matrix, as a product of elementary matrices:

$$\begin{pmatrix} 1 & 2 & 1 \\ 1 & 0 & 1 \\ 1 & 1 & 2 \end{pmatrix} \tag{2}$$

3. Find the solution(s) for the following system of linear equations: