Quiz #3 MATH 54, Fall 2016, Section 224

Name:		
Section:		

1. Compute the inverse of the following matrix by row reduction (it is indeed invertible):

$$\begin{bmatrix} 3 & -4 & 3 \\ 2 & -4 & 3 \\ -2 & 3 & -2 \end{bmatrix}$$

2. Is the linear transformation that gives rise to the following transformation one-to-one? Onto? Do not use row reduction.

$$\begin{bmatrix} 1 & 2 & 3 \\ 2 & 4 & 6 \\ 0 & 0 & 1 \end{bmatrix}$$

3. Provide an example or explain why none exists of a 2×3 matrix A and a 3×2 matrix C such that $CA = I_3$. If an example exists, try to give the simplest possible example you can find.