Name: $\qquad$
Section: $\qquad$

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

$$
\left[\begin{array}{ccc}
3 & -4 & 3 \\
2 & -4 & 3 \\
-2 & 3 & -2
\end{array}\right]
$$

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

$$
\left[\begin{array}{lll}
1 & 2 & 3 \\
2 & 4 & 6 \\
0 & 0 & 1
\end{array}\right]
$$

Quiz \#3 MATH 54, Fall 2016, Section 224
3. Provide an example or explain why none exists of a $2 \times 3$ matrix $A$ and a $3 \times 2$ matrix $C$ such that $C A=I_{3}$. If an example exists, try to give the simplest possible example you can find.

