Math 229 Inverse Matrix Worksheet Due: 05/07/2014

Name:____

1. Given the matrix:
$$A = \begin{bmatrix} 2 & -3 & -4 \\ 0 & 0 & -1 \\ 1 & -2 & 1 \end{bmatrix}$$

(a) (7 points) Find
$$A^{-1}$$
, the inverse of A

(b) (3 points) Use A^{-1} to solve the system of equations: $\begin{cases} 2x - 3y - 4z = 7 \\ -z = 13 \\ x - 2y + z = -1 \end{cases}$