

Name: _____

206 Quiz 1

1. Put the matrix into reduced row echelon form.

$$\begin{bmatrix} 2 & 2 & 2 & 2 & 2 & 2 \\ 1 & 1 & 1 & 2 & 2 & 3 \\ 3 & 3 & 3 & 6 & 9 & 6 \end{bmatrix}$$

2. If possible, solve the linear system with the given augmented matrix. If not possible, indicate that the system is inconsistent and state why.

(a)

$$\left[\begin{array}{cc|c} 1 & 1 & 2 \\ 2 & 3 & 1 \\ 3 & 4 & 2 \end{array} \right]$$

(b)

$$\left[\begin{array}{ccccc|c} 1 & 2 & 0 & 0 & 3 & 2 \\ 0 & 0 & 1 & 0 & -1 & 4 \\ 0 & 0 & 0 & 1 & -2 & 3 \end{array} \right]$$