

Last name _____

First name _____

LARSON—MATH 310—WORKSHEET 7
Row-equivalent Matrices

1. Find the reduced echelon form of the following matrix.

$$\begin{pmatrix} 1 & 2 \\ 4 & 8 \end{pmatrix}$$

2. Find the reduced echelon form of the following matrix.

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

3. Are these matrices row-equivalent?

4. Find the reduced echelon form of the following matrix.

$$\begin{pmatrix} 1 & 0 & 2 \\ 3 & -1 & 1 \\ 5 & -1 & 5 \end{pmatrix}$$

5. Find the reduced echelon form of the following matrix.

$$\begin{pmatrix} 1 & 0 & 2 \\ 0 & 2 & 10 \\ 2 & 0 & 4 \end{pmatrix}$$

6. Are these matrices row-equivalent?