

Last name _____

First name _____

LARSON—MATH 310—WORKSHEET 5
Singular & Non-singular Matrices

The following matrix A corresponds to a homogenous system of equations.

$$\begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix}$$

1. Use Gaussian elimination to reduce A (write it in echelon form).
2. Write the (homogenous) system of equations corresponding to the reduced matrix.
3. Solve the system. How many solutions does the system have?
4. Determine if A is singular or non-singular.

