

# Math 4133 - Linear Algebra

Quiz #5 - 2014.02.07

Name: \_\_\_\_\_

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Consider the matrix:

$$A = \begin{bmatrix} 1 & 3 & 0 \\ -3 & 1 & 0 \\ 4 & 3 & 1 \end{bmatrix}$$

1. Compute the determinant of  $A$  along any row or column except row 1.

2. Based on your answer to problem 1, is  $A$  invertible?

3. Compute  $M_{2,3}$ .