Problem Set #4

ECON 407: Mathematical Economics

(**due next class**)

1. Find the minors and cofactors of the third row, given

2. Show that, when all the elements of an *n*th-order determinant are multiplied by a scalar , the result will be .

3. Give the name and a one sentence explanation of the determinant property that allows us to write the following:

a)

b)

4. Determine if the following matrix is nonsingular.

5. Solve the system by matrix inversion (do not use Cramer’s rule),