**ENGR 2011: Engineering Analysis and Applications**

**Homework No. 4: Matrix Inversion and Elementary Matrices**

**Goal:** Demonstrate that you can do some simple matrix manipulations such as determinants and inverses. Also, verify the behavior of some elementary matrices.

**Textbook Problems:**  2.4.1, 2.4.4, 2.4.18, 2.4.27, 2.5.2, 2.5.3, 2.5.9

**Computer Problems:**

Write a Python script that solves each of the above problems. Name your script according to the problem number. For example, for problem 2.4.1, your script would be:

/data/courses/engr\_2011/homework/current/hw\_04/p2.4.1.py

Use your Python code to verify your analytic solutions.