**Linear Algebra Test** Name:

**Directions: You may check your work with technology but I must see all algebraic steps.**

1. Use elementary matrices to solve the following system. Be sure to write each of the elementary matrix operations carefully.



2. Use Gauss-Jordan elimination to find the inverse of:



3. Find the determinant of:



4. Solve  using Cramer’s rule.

5. Find the least squares solution of the following system.

