Study Guide for TEST I – In-Class Portion
MATH 2201

- Be able to find the inverse of a matrix by row reduction. See problems 9-24 on pages 58-59.
- Be able to find the determinant of a matrix using either cofactor expansion. See problems 21-26 on page 99.
- Understand how to use Theorem 2.3.8 to determine when a matrix is invertible. See problems 7-18 on page 115.
- Know how to use properties of matrix arithmetic (Theorem 1.4.1) to determine if general statements concerning matrix operations are true or false. See True-False Exercises (a)-(k) on pages 50-51. If a statement is false, give a counterexample (an example that shows it is not true). If a statement is true, prove it.
- Prove simple statement concerning matrix arithmetic, determinants, etc. See problems 28, 52, 53(a), 54 on page 50; problems 32, 33; problem 36 page 100; problems 33, 38, 39 on page 116.