1 Test Information

1.1 Time and Location

Wednesday, April 13, in the Computer Lab (RT1501)

1.2 Test Topics

- Section 3.1: Linear Transformations
- Section 3.2: Matrix Algebra
- Section 3.3: Inverses
- Section 4.1: Subspaces
- Section 4.2: Basis and Dimension
- Section 4.3: Row and Column Spaces
- Section 5.1: The Determinant Function
- Section 5.2: Properties of the Determinant
- Section 5.3: Applications of the Determinant

Linear algebra is a discipline that is both *computational* and *conceptual*. To be successful in the test, it is essential to study both aspects of the subject and understand how they are related. The following tips will help you achieve this goal.

2 Preparing For the Test

2.1 Preparation Strategies

- Mathematics is a subject that can only be learned by doing. Do as much practice problems as your time allows.
- When studying, be an *active reader*. Take notes as you read the text and the lecture notes, make a summary and/or a set of study cards.
- Trying to simply memorize definitions, theorems and proofs is known to be a failing strategy
 to learn mathematics. Instead, it is important to develop an understanding of how the several
 concepts fit together. Many people find it helpful to write the concepts, since writing "slows
 down" our thought process to a reflection level that makes it easier to learn all the relationships.

2.2 Test Policies

- The test is with closed notes and books.
- You can use the row operation software provided for the computer labs.
- No other software is allowed.
- You are not allowed to visit any external web site during the test, or use the computer to communicate with anyone.
- Calculators are allowed, but are not necessary. In fact, they are not recommended.
- No scratch paper is allowed during the test. The test will contain enough space to contain all solutions.
- Answers are to be given in exact form. That is, numbers must be expressed as rationals (fractions), not decimal approximations.
- Solutions must contain the work that shows how answers were obtained. Solutions with no justification will receive no credit. (Unless where it is specifically said that a justification is not necessary.)
- For the purpose of grading, all work must be written in the provided test. No printouts of Jupyter notebooks will be accepted. So, make sure you copy to the test writeup all the information you deem necessary for the solution of each problem.
- Write the final answer of each problem in a manner that is consistent with the question asked. If, for example, a problem asks for the solution of a linear system a matrix will not be accepted as a valid answer
- The instructor will not answer questions during the test. The only exception to this rule consists
 of readability issues caused by copying problems. Notice that being able to understand the
 statement of test problems is part of the skills being tested, and is each student's exclusive
 responsibility.