

MIDTERM REVIEW
Linear Algebra–Block 5, 2013

The exam will be available at 8AM on Thursday, and due by 4PM. You must do the exam in one sitting—that is, do not go to lunch, or a meeting, or to run an errand in the middle of the exam. I believe the exam is 4 or 5 quizzes long, so I believe everyone can finish within 3 hours (but this is not required). The Honor Code rules are: no help from other people, and no books or notes except one 3x5 card with writing on both sides that you prepared for yourself before the exam. You will not be allowed to use a calculator or computer, but I will try to make the arithmetic easy.

List of sections covered:

Chapter 1: 1.1-1.5, 1.6 (no network flow, and do not need to remember details of how Leontief is constructed),1.7-1.9

Chapter 2: 2.1, 2.2, 2.3

Chapter 3: 3.1, 3.2, 3.3 (no adjugate formula for inverse)

Sample problems:

1. Questions on the exam will include True/False, with requirement to give a justification of your answer. For practice see p 88 #1, p160 #1, and p. 185#1
2. The exam will include a simple proof for you to write. For practice, p. 88-90, #18,20; p160-161 #10,18; p185-187 #7
3. The exam will include some computations and checks on your understanding of definitions and theorems (you will not be asked to give a formal definition or state a theorem, just to use them correctly. For practice, p. 88-90 #5a, 9, 21; p160-161 # 8, 9; p185-187 #9, 11