

Math 640A
Homework 7, due Friday November 1.

Fall 2002

1. (30 points)
 - (a) Section 4.5 problem 21.
 - (b) Relate this problem to Section 3.2 problem 5, and thereby construct a recursive algorithm for computing A^{-1} .
 - (c) Compare this algorithm to the Neumann series method in Section 4.5 and the product method in the last problem on homework 6. Would you recommend this algorithm over those?
2. (25 points) Section 4.6 problem 28.
3. (25 points) Do this problem as a Good Problem, paying attention to the *Layout*, *Flow*, *Symbols*, and *Logic* handouts.
Section 4.6 problem 33.
4. (20 points) Section 4.7 problems 1 and 2.