

FINAL EXAM – Linear Algebra I

Take Home - DUE Thursday, Dec 16, 2010 before 5:00pm
Return it to my office - ENG 271

You may use any theorems which were proved in class or in the textbook provided that you state them clearly. You may not use results which were proved as part of your homework unless you prove them again here.

ABSOLUTELY NO TEAM WORK ALLOWED!!!

Math 513 students are required to answer all questions!

The starred (*) problems are optional for Math 413 students. They will be considered extra credit.

- **Problem 1**

Determine whether the following pairs of matrices (A, B) are similar or not. If yes, find a matrix Q such that $B = Q^{-1}AQ$.

(a)

$$A = \begin{bmatrix} 2 & 1 & 0 \\ 0 & 2 & 1 \\ 0 & 0 & 3 \end{bmatrix}, \quad B = \begin{bmatrix} 2 & 1 & 0 \\ 0 & 2 & 0 \\ 0 & 0 & 3 \end{bmatrix}$$

(b)

$$A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}, \quad B = \begin{bmatrix} 4 & 3 \\ 2 & 1 \end{bmatrix}$$

Linear Algebra The Final Exam Series Book 1

Raffaela Di Napoli



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