MATH 240 — HOMEWORK 8.

due on Monday, March 19.

by Stephen W. Goode and Scott A. Annin

Topics:
  • Chapter 7 Eigenvalues and Eigenvectors
    - 7.1 The Eigenvalue/Eigenvector Problem
    - 7.2 General Results for Eigenvalues and Eigenvectors
    - 7.3 Diagonalization
    - 7.4 Matrix Exponential
  • Chapter 8 Linear Differential Equations of Order $n$
    - 8.1 General Theory of Linear Differential Equations
    - 8.2 Constant Coefficient Homogeneous Linear Differential Equations

Eighth Homework Assignment.

Reading:
  • Read Section 8.1.

Problems: Make sure you can do all the [Core Problems] for Section 8.1,
but write up (only) the following problems to be handed in:
  • Section 8.1 (page 502)
    - True-False Review: b, c, e, f, j ; Problems: 8, 13, 30, 34, 36, 42
  • From the old Final Exams
    - Fall 2016: Problem 3, 4
    - Spring 2016: Problem 8, 9