MATH 240 — HOMEWORK 9.

due on Monday, March 26.


Topics:
• Interpolating Polynomials (your notes)
• Chapter 8 Linear Differential Equations of Order n
  – 8.1 General Theory of Linear Differential Equations
  – 8.2 Constant Coefficient Homogeneous Linear Differential Equations

Ninth Homework Assignment.

Reading:
• Read Section 8.2. Read your notes.

Problems: Make sure you can do all the Core Problems for Section 8.2, but write up (only) the following problems to be handed in:
• Section 8.2 (page 512)
  – True-False Review: b, d, h ; Problems: 8, 10, 14, 20, 21, 28, 36, 38

Problem 1. Find the interpolating polynomial $p$ that satisfies $p(-1) = 0, p'(-1) = -1, \text{ and } p(1) = 1, p'(1) = 0.$
(It has degree $\leq 3$)