

Math 269B: Assignment 3

Assigned Friday Jan 25, due Friday Feb 1

Theory

[1], [2] Problems 3.1.1, 3.1.4 of Strikwerda.

[3] Show that the modified Lax-Wendroff scheme (3.1.9) is first order accurate.

Computation

[4] Repeat problem [5] from HW2 for the Lax-Wendroff method

What You Should Turn In

- Answers to the theoretical problems.
- The graphs for the computational problem 4 and a listing of your program.