

Homework #2

Problems:

- §4.3 15f.
§4.4 1c, 2c, 9, 17.
§4.6 1f, 2f, 6.

Due: Monday, February 17

Text: Burden and Faires, *Numerical Analysis*, 7-th edition.

Final Project: As mentioned in the syllabus, each student will be required to complete a final project devoted to a topic or application connected with the course material: numerical differentiation, integration, and solution of differential equations. The project will consist of three parts: a written paper of 7–12 pages; a computer implementation or illustration in Matlab; and a 10–15 minute oral presentation during the last week of class. I would like to get a short “project proposal” written before the end of February, so I can evaluate the feasibility of your project, and make suggestions if necessary. If you want to discuss this with me, please either come to my office hours or make an appointment.