

Homework 1

MATH 5610 FALL 2016

NAME:

GRADE: _____

Problem 1. Implement an algorithm to compute the machine epsilon for your computer. This is discussed on pages 19 and 23 of your textbook and we will discuss this further during our discussions on roundoff error. Test your code for single and double precision accuracy within your coding language. This routine should be included in the software manuals you will create for the course.

Problem 2. Complete Problem 1. at the end of Chapter 1 in the textbook.

Problem 3. Complete Problem 2. at the end of Chapter 1 in the textbook.

Problem 4. Complete Problem 3. at the end of Chapter 1 in the textbook.

Problem 5. Complete Problem 4. at the end of Chapter 1 in the textbook.

Problem 6. Complete Problem 5. at the end of Chapter 1 in the textbook.
