Temple 3044 Numerical Analysis II Spring 2012
Problem Set 1
(Out Thu 01/19/2012, Due Thu 01/26/2012)

Instructions

Any problem given by a number (and page reference) is taken from the book
Brian Bradie, *A Friendly Introduction to Numerical Analysis*, Pearson Prentice Hall, 2006.

- Problems marked with **(T)** are theory problems. Their solutions are to be submitted on paper.
- Problems marked with **(P)** are practical problems, and require the use of the computer. Their solutions are to be submitted on paper, and usually require two parts: (a) a description of the underlying theory; and (b) code segments, printouts of program outputs, plots, and whatever it required to convince the grader that you have understood the theory and addressed all practical challenges appropriately.

Generally, naked numbers are not acceptable. Solutions must include a short write-up describing the problem, your solution technique, and procedural details. To include a computer printout use the cut and paste method for placement of materials in your work. All things must be clearly labeled.

Section 6.4 (pages 465–467)

(T) 1. (b)&(d)   **(T)** 2. (b)&(d)   **(T)** 3. (b)&(d)
(Of course, you are allowed to use the computer to perform the actual computations)

(T) 4.   **(T)** 5.