

## Problem Set 3

(Out Mon 09/19/2011, Due Tue 09/27/2011)

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**Instructions**

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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.

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**Section 2.1** (pages 69–71)

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**(T)** 4.      **(T)** 5.      **(T)** 8.      **(P)** 14.      **(P)** 17.

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**Section 2.2** (pages 78–81)

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**(P)** 5.      **(T)&(P)** 8.      **(T)&(P)** 9.      **(T)** 12.