Allowed materials:
1. Course text.
2. Course lecture notes, including your personal notes from lectures, and homework.
3. Calculator.

Instructions

1. All work on this exam must be your individual effort, without assistance from others.
2. If you are not certain that you understand the question, ask the instructor for clarification.
3. Work all problems in the spaces provided. If you need additional space, use a blank sheet of paper and staple it into the exam in sequence.
4. Show all of your work. Credit will not be given for answers that are not supported by work or explanation.
5. You may use any formula from the text or lectures to solve a problem, but it is advisable to reference such formulas to insure proper credit for your work.
6. Define all quantities and expressions that appear in your answer, if they are not defined in the problem statement.
7. Clearly indicate your final answer, for example by underlining or enclosing in a box.

The work on this exam was completed by me without unauthorized assistance from others.

Signature ___________________________ Date __________