

Cadet \_\_\_\_\_

Section \_\_\_\_\_

MA103 Term End Exam (TEE), Term 09-1

16 December 2008

Name \_\_\_\_\_ Departure time \_\_\_\_\_

Number of additional sheets \_\_\_\_\_

Total Time allotted for TEE: 3 and 1/2 hours (210 minutes)

Total TEE Points: 500 points

**READ THESE INSTRUCTIONS CAREFULLY BEFORE STARTING WORK**

1. Print your name and section on every sheet of this exam.
2. Early departure is authorized. Give the TEE to your instructor or place it on your instructor's desk when completed.
3. Use of your laptop computer (limited to the use of Excel and Mathematica), any calculator, and a sheet of notes is authorized. Use of books, other notes, or wireless network is NOT authorized.
4. Including this cover sheet the exam is comprised of 12 pages on 6 sheets.
5. Show as much work as possible. Using the laptop or calculator to help solve a problem is fine and sometimes recommended. Work done on your computer, however, will not be graded. When using technology, you should describe the steps you took and the results you found. A word of caution: a wrong numerical or symbolic solution found using the calculator or your laptop with no supporting work, receives zero credit. It is always best to show intermediate steps to illustrate your problem solving process.
6. Use a blank continuation sheet if you need more space and clearly identify that the problem is continued both on the exam and on the continuation sheet. Be sure to put your name on the continuation sheet. Use one continuation sheet per problem continued.
7. When you are finished, **ENSURE THAT:**
  - a. Your name and section are on every sheet of paper.
  - b. The total number of additional sheets used is written at the top of the exam.
  - c. You have properly identified your solutions.

**\*\*\*FOR INSTRUCTOR USE ONLY\*\*\***

Problem	Weight	Score		Problem	Weight	Score	
1	80			6	60		
2	50			7	60		
3	60			8	60		
4	30			9	45		
5	40			10	15		

TOTAL: \_\_\_\_\_/500