

CAAM 453/553 · NUMERICAL ANALYSIS I

Examination 2

Posted 9 December 2009.

Due no later than 5pm on Wednesday, 16 December 2009.

Instructions:

1. Time limit: **4 uninterrupted hours**.
2. There are three questions. All students should attempt all three questions.
Please do not look at the questions until you begin the exam.
Parts 2(f) and 3(i) are only required of 553 students.
453 students are welcome to attempt 3(i) for five bonus points.
CAAM 453 exams will be graded out of 100 points; CAAM 553 exams out of 110 points.
3. Read the questions carefully. Sometimes useful facts are given between steps of a problem.
You only need to produce work for those parts of the problem labeled (a), (b), (c),
4. You *may not* use any outside resources, such as books, notes, problem sets, friends, calculators, or MATLAB.
5. Please answer the questions thoroughly and justify all your answers.
Show all your work to maximize partial credit.
6. Print your name on the line below:

7. Time started: _____ Time completed: _____
8. Indicate that this is your own individual effort in compliance with the instructions above and the honor system by writing out in full and signing the traditional pledge on the lines below.

9. Staple this page to the front of your exam.