

**Final Examination: Math 2582**  
**Monday December 16, 2002: 1:30pm–4:30pm**

Name \_\_\_\_\_, ID No. \_\_\_\_\_

Signature \_\_\_\_\_, Discussion Session \_\_\_\_\_

[Total: 200 points, from Three Parts, with 4 Scratch Pages]

**READ AND FOLLOW THESE INSTRUCTIONS**

This booklet contains 22 pages including this cover page. Check to see whether any are missing, so you can have a correct copy! **Legibly** enter the requested information above, and sign your name. Put at least your initials on the top of every page, in case the pages become separated. Textbooks, notes and calculators **are not permitted**.

Do your work in the blank spaces below the problems, on the Scratch Pages and backs of pages of this booklet.

**Important: if some of your work is not below its problem, indicate, for the scorers, where the additional work is!!** Show all your work.

There are 8 general problems, each worth 5 points. There are 8 multiple choice problems each worth 10 points. There are 5 computational problems, each worth 16 points, for a total score of  $40 + 80 + 80 = 200$  points.

**INSTRUCTIONS FOR THE HAND-GRADED PARTS**

(Parts One and Three, Problems (1.1) – (1.8) and (3.1) – (3.5)):

**SHOW ALL YOUR WORK.** *Unsupported answers will receive little or no credit!*

**INSTRUCTIONS FOR THE MACHINE-GRADED PART** (Part Two, Problems (2.1) – (2.8)):

You **MUST** use a soft pencil (No. 1 or No 2) to answer this part. Do not fold or tear the answer sheet, and carefully enter all the requested information according to the instructions you receive.

**DO NOT MAKE ANY STRAY MARKS ON THE ANSWER SHEET.** When you have decided on the correct answer to a given problem, *circle the answer in this booklet* and blacken completely the corresponding circle in the answer sheet. If you erase something, do so completely. Each problem has one correct answer. If you give two different answers, the problem will be marked wrong. There is no penalty for guessing, but if you don't answer a problem, be sure to skip the corresponding line in the answer sheet! Go on to the next problem!

**Notice regarding the machine graded sections of this exam:** Either the student or the School of Mathematics may for any reason request a regrade of the machine graded part. All regrades will be based on responses in the test booklet, and not on the machine graded response sheet. Any problem for which the answer is not indicated in the test booklet, or which has no relevant accompanying calculations will be marked wrong on the regrade. *Therefore work and answers must be clearly shown on the test booklet.*

**AFTER YOU FINISH BOTH PARTS OF THE EXAM:** Place the answer sheet between two pages of this booklet (make a sandwich), with the side marked "GENERAL PURPOSE ANSWER SHEET" facing **DOWN**. Have your ID card in your hand when you turn in your exam.

**DO NOT WRITE BELOW THIS LINE – RESERVED FOR SCORERS**

(1.1)	(1.2)	(1.3)	(1.4)	(1.5)	(1.6)	(1.7)	(1.8)

\_\_\_\_\_      \_\_\_\_\_  
 Part 1 TOTAL      Mult. Ch. TOTAL

(3.1)	(3.2)	(3.3)	(3.4)	(3.5)

\_\_\_\_\_      \_\_\_\_\_      \_\_\_\_\_  
 Part 3 TOTAL      Parts 1&3: TOTAL      **GRAND TOTAL**