Math 579 Exam 3 (part II): 2/20/7
Please read the exam instructions.
Books and notes are forbidden for this exam. Please write your answers on separate paper and put your name on every sheet. Cross out work you do not wish graded; incorrect work can lower your grade, even compared with no work at all. Keep this page for your records. Show all necessary work in your solution; if you are unsure, show it. Simplify all numerical answers to be positive integers, if possible. This problem is worth $10-20$ points. You have 30 minutes.

You may earn extra credit by submitting by the next class period (Feb. 22), revised solutions to the problems on both parts (I and II) of this exam. Your score on the revised exam will be the lowest three scores on part I, plus the score on part II. Hence, although you need not resubmit problems you've already solved, to improve your grade you will need to submit solutions to the problems you did not solve correctly and the problems you did not attempt.

PROBLEM: How many six-digit positive integers are there in which the sum of the digits is greater than or equal to 5 ? Remember that a positive integer must have its leading digit be nonzero. (e.g. 012345 is not a six-digit positive integer)

