

Name (please print):

Math 213, Spring 2006
HW Assignment 5

Instructions

- **Write your name on the cover sheet and staple the sheet to the assignment.** Do the problems in order, and make sure that each problem is clearly labelled.
- **Deadline:** The assignment is due in class on Friday; late homework, or homework dropped off in mailboxes, will not be accepted. (You can, of course, turn in the homework early, in my office, any time before the due date).
- **Open House:** For the remainder of the semester, the “Open House” will (usually) be Thursdays, 5 - 6 pm, in 147 Altgeld. Feel free to stop by with questions about the homework or anything else relating to this course!

Problems

- **Section 4.3:** 16, 17, 19
- **Section 4.4:** 6, 8, 12
- **Section 4.5:** 6, 8, 10(a)(c), 12, 14, 16(a)(b), 30, 32

About these problems. As always, show your work and explain how you arrived at the answer. For combinatorial problems, you can do so using a notation such as $\underbrace{26^2}_{2 \text{ letters}} \cdot \underbrace{10^3}_{3 \text{ digits}}$.

You can leave answers in “raw” form, involving binomial coefficients, factorials, etc., such as $\binom{10}{3}2^33^7$ (but no summations!). Avoid using calculators except to check numerical answers against those in the back of the book. This is a no-calculator class, and you won’t be able to use calculators in exams, so you should get into the habit of doing problems without a calculator.