MATHEMATICS 300 — FALL 1998

Introduction to Mathematical Reasoning
Instructor: H. J. Sussmann
HANDOUT NO. 16. December 2, 1998

Remember that:

1. The **second midterm test** is on Monday, December 7. (The test was originally scheduled for December 2, but at the students' request—after a democratic vote held in class on Monday November 30—we rescheduled it for December 7.)
2. The **final exam** is on Wednesday, December 16, 8:00 pm to 11:00 pm.
3. During the week of December 7-11, we have **three** meetings, on Monday, Wednesday and Thursday, because Thursday Dec. 10 runs on a Monday schedule.

HOMEWORK ASSIGNMENT NO. 10, DUE ON WEDNESDAY, DECEMBER 9.

1. Problem 2 in page 125.
2. Problem 15 in page 127. (Hint: be careful to avoid making the following mistake, which is usually made by most people who do this problem: "The set $\{\{a\},\{a,b\}\}$ has two distinct members, namely, the set $\{a\}$ and the set $\{a,b\}$." This statement is true if $a \neq b$, but a and b could be equal, and in that case the set $\{\{a\},\{a,b\}\}$ has only one member, because $\{a\}$ and $\{a,b\}$ are the same set.)
3. Problem 20 in page 127.
4. Problem 7 in page 134.
5. Problems 9, 13 and 16 in page 135.

If you hand in your homework on Wednesday, Dec. 9, then the grader and I will do our best to get it back to you, graded, on Thursday, for the last class of the year. If you hand it in late then you may have to get in touch with the grader in order to get it back.

If I find the time, I will write a Handout No. 17 for next week. If you have any questions that you would like me to discuss there, send them to me by e-mail and I will try to address them in the handout. I cannot give you a definite promise that I will do it, but I will at least try my best. My e-mail address is:

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