Mathematics s21 2007 - Day Fifteen (Wednesday, 16 May)

1. 9:00-10:20
   (a) Students present problems from homework.
   (b) In threesomes, read section 7.3 and do exercises 7.3.8, 7.3.9, and 7.3.11.
   (c) Prove Theorem 7.3.10.
2. 10:20-10:35 Break
3. 10:35-11:30
   (a) Students present selected exercises.
   (b) In the same groups, read section 7.4 and do exercises and problems, 7.4.1, 7.4.7, 7.4.9, and 7.4.10.
4. 11:30-11:55 Maple
5. 11:55-1:00 Lunch
6. 1:00-3:00
   (a) Continue working on Section 7.4.
   (b) Students present selected exercises.
   (c) Prove the following:
      i. Theorem 7.3.5.
      ii. A set A is countable iff A is equivalent to some subset of $\mathbb{N}$.

Today's Key Ideas
denumerable
countably infinite
countable
uncountable

Homework

1. This week's LaTeX assignment is due tomorrow, Thursday, at 1p.m..
2. Do problem 7 on page 176.
3. Prove Theorem 7.4.8.