

Session 7, March 14, 2011, 12:30–16:15**Program**

1. 12:30–14:00 in G5-112. We now start on the important theorems for functions of several variables. We first prove the inverse function theorem. I will prove all the necessary auxiliary results today, and next time I prove the main theorem, Theorem 16.12. I will go through Section 16.2 in detail and part of Section 16.3, in [PF]. Section 16.1 contains some introductory material and some examples. I may return to them later.
2. 14:00–16:15 in groups. See the list of exercises below. Note that there is extra time for solving problems today.

Exercises Solve the exercises in the order posed.

1. Section 12.3, Exercises 5 and 3 (in that order!).
2. Re-Exam August 2007, Opgave 1.
3. Re-Exam August 2009, Opgave 1.
4. Exam June 2010, Opgave 1.
5. Re-Exam August 2010, Opgave 1.

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