

Algebra 3 2010

Seventh information sheet

19. March 2010

Lectures:

The final lectures will be given by Chr. U. Jensen. They cover Chapter V and include a summary of important results in Galois theory.

The result of the **third compulsory exercises** will be announced at the SIS at the latest by the end of March. (The lecturer will be abroad from 21.-27. March.) The corrected exercise sheets may be picked up in the mailbox of the instructor.

Information on the curriculum of the course:

We are going to discuss all Chapters of the notes. The following sections of the notes are *not* part of the curriculum:

1. Symmetric polynomials pp. 2.9-2.12
2. Discriminant of a polynomial pp. 2.31-2.35
3. Construction of regular polygons by compass and straightedge pp. 4.15-4.17

In addition Chapter V is not going to be relevant for the written exam.

• Exercises

In the final exercise class the exercises on the pages 7 and 8 in the collection "Exercises for Chapter II-V" should be discussed. Exercises marked by * are particularly recommended. Also some exam exercises may be discussed.

Information about the written exam:

- The exam takes place on Friday 16. April from 9:00-12:00 at Frederiksberg-Hal 2, Jens Jessensvej 20. *Please check this information yourself!!*
- You are allowed to bring your lecture notes and books and personal notes, e.g. your solutions to the exercises from the exercise classes (recommended). Computers and calculators of any kind are not allowed.
- In the written exam there will be five exercises. Two of the exercises will be about group theory, three about the subjects treated in Chapters II-IV.

Parts of the exam exercises may be related to some of the exercises from the exercise classes.

- The exercises in the exam will be offered in an English (on the first pages) and in a Danish version (on the later pages). You are free to choose between the versions and answers to the exercises may be written in English or in Danish at your choice.
- As in the case of the compulsory exercises your solutions will be awarded a point grade between 0 and 100. This will contribute 3/4 to your total grade for the course.

(Example:

Compulsory exercises: 95p, 89p, 100p.

Points for exercises is the average 95p.

Points for the written exam: 75p.

Points for the course $(75+75+75+95)/4=80p.$)

The grade for the course is based primarily on the points for the course. You'll need at least 50 points to pass the course and at least 91 points to get the grade 12.

- The written exam will be corrected by the end of april. It is planned that your grades for the course will be announced at the SIS at the latest on thursday 29. April in the afternoon. If you have questions, you may contact the lecturer. Be aware that the lecturer will also be abroad 17.-26. April and thus he may not be able to answer inquiries during this period.
- Good luck!

Finally: *Please check the course homepage a few times before the written exam. It may be updated with new information.*