

Algebra 3

Fifth information sheet

Ugeseddel 5

29. september 2005

• IMPORTANT INFORMATION

1. The lectures on friday 30. september starts one hour later at 10:15.
2. Please participate in the course evaluation in the period 3.-10. oktober! Just follow the link from the Algebra 3-homepage. It is important for us to know your opinion on all aspects of this new course in order to try to make it better next time!

• Information on the curriculum of the course

We are going to cover Chapters I-V of the book. The following parts are omitted:

- Chapter I: “Flytningsgrupper” pages 1.16-1.18 and “Abelske grupper og lineære grupper”, pages 1.42-1.55.
- Chapter II: The pages concerning “Symmetric polynomials” and the last part concerning “Discriminant of a polynomial”

This list may be extended.

• Lectures

The fifth week:

Tuesday: pages 2:13-2:18 (Splitting fields for polynomials and their uniqueness, GCD of polynomials, characteristic of a field.)

Friday: pages 2.19-2.2:26 (Rest of Chapter 2, except Discriminants. That part is omitted.)

In the **sixth week** it is planned to cover a major part of Chapter III.

• Exercise sheets

Exercises for the sixth week are available 30. september.

Second compulsory exercises are available 30. september. Deadline 7. oktober at noon.

Exercises for the seventh week are available 7. oktober.

- **Second compulsory written test**

The test is scheduled to take place in Aud 4 on friday 28. october. The topic of the test is mainly going to be the material covered in the lectures of the weeks 4-7 and the exercises of the weeks 5-8.

- **Next information sheet:** 6. october.