## Algebra 2010-Aalborg University

6th Lecture: Wednesday September 22nd, 8:15-12:00 at room G5-112.

- 8:15-8:45 Repetition from last lecture. Groups. Groups and congruences. The composition table. Associativity. The first non-abelian group. Uniqueness of neutral and inverse elements. Multiplication by  $g \in G$  is bijective. Examples of groups (pages 50-57)
- 8:45-10:30 Work in groups. Exercises from [Lau], 2.11 (page 104): 1, 2, 3, 6, 8. If you solve all these exercises you may try to solve the ones you did not solve in the previous lectures
- 10:30-12:00 Lecture: More examples of groups. Subgroups and cosets (pages 57-64).

Best regards,

Diego Ruano