

# MAT 551: Algebra I

## Exercise Sheet 4

Stefan Kohl

May 28, 2011

Due: Monday, June 6, 2011

Exercise 16 (Version 12): Let

$$G := \langle a, b, c, d \mid a^2 = b^2 = c^2 = d^2 = (ab)^3 = (ac)^3 = (ad)^3 = (bc)^3 = (bd)^3 = (cd)^3 = 1 \rangle.$$

Find out about the group  $G$  as much as you can. You will hand in your written answers on June 6. Further you will give a short (about 5 minute) talk about your findings on June 8 and answer a few questions on them at the blackboard. It is allowed to use a computer algebra system such as **GAP**. (Credits: unspecified, depends on what you do and how you present it.)