

MAT 551: Algebra I

Exercise Sheet 4

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Due: Monday, June 6, 2011

Exercise 16 (Version 3): Let

$$G := \langle (1, 6, 12, 4, 8)(2, 5, 11, 3, 7)(13, 18, 20, 22, 15, 14, 17, 19, 21, 16)(23, 24), \\ (1, 23, 2, 24)(3, 21, 12, 16, 10, 13, 4, 22, 11, 15, 9, 14)(5, 17, 6, 18)(7, 20, 8, 19) \rangle < S_{24}.$$

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.)