18.701 Problem Set 5

This assignment is due Friday, October 16

Please 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.10 (eigenvectors of $AB$ and $BA$)