

Math 416: HW 9 due Friday, April 15, 2016.

Webpage: <http://dunfield.info/416>

Office hours: I have my usual office hours the week of March 28: Mon 3:30–4:30, Wed 11–12, Thur 3:30–4:30, and by appointment. My office is 378 Altgeld Hall.

Problems:

1. Section 5.3 of [FIS], Problem 1 parts (c-j).
2. Prove Theorem 5.15 on page 290 of [FIS] and its two corollaries on page 291.
3. Prove that if a 1-dimensional subspace W of \mathbb{R}^n contains a nonzero vector with all nonnegative entries, then W contains a unique probability vector.
4. Section 5.3 of [FIS], Problem 7.
5. Section 6.1 of [FIS], Problem 3.
6. Section 6.1 of [FIS], Problem 8 parts (a) and (b).
7. Section 6.1 of [FIS], Problem 9.
8. Section 6.1 of [FIS], Problem 10 and Problem 15(a).
9. **Postponed to HW 10.** Section 6.2 of [FIS], Problem 2 parts (b, c, g).
10. **Postponed to HW 10.** Section 6.2 of [FIS], Problem 7.