

## **Math 418: HW 3 due Wednesday, February 11, 2015.**

**Webpage:** <http://dunfield.info/418>

**Office hours:** Monday and Tuesday from 2:30 - 3:30 and by appointment.

All problems are from Dummit and Foote, *Abstract Algebra*, 3rd edition.

1. For the next part of the course, I will be assuming familiarity with linear algebra over arbitrary fields, in particular the contents of Sections 11.1 and 11.2 of the text. Review those sections, and work a problem from them of your choice.
2. Section 9.4 #10.
3. Section 13.1 #2.
4. Section 13.1 #8.
5. Section 13.2 #7.
6. Section 13.2 #14.