## ${\bf Math~81.~} Abstract~Algebra.$

## **Homework 2.** Due on Wednesday, 1/21/2009.

From pages 529-530 of the textbook (*Abstract Algebra* by Dummit and Foote), do problems 1, 2, 3, 4, 5, 14. For the last part of problem 2, it's enough to do it for the field with 4 elements.