

MA3825 Rings & Fields  
W. J. Martin  
November 6, 2009

## **Algebra Assignment 2**

DUE DATE: Friday, November 13, 2009, by 4:30pm in my office mail slot.

Please carefully review the presentation rules for homework in this course; they are reproduced on the back of this sheet for your convenience.

Please complete the following eight proofs from the text.

1. Ex. 48 on p244.
2. Ex. 14 on p255.
3. Ex. 18 on p256. (I want you to give a proof by induction here.)
4. Ex. 20 on p256.
5. Ex. 56 on p258.
6. Ex. 10 on p270.
7. Ex. 14 on p270.
8. Ex. 16 on p270.

## BASIC RULES FOR MA3825 ASSIGNMENTS

- I) Each student must compose his/her assignments independently. However, rough work may be done in groups;
- II) Write legibly and use only one side of each sheet of paper; **Any paper submitted which is sloppy or uses two sides of a page will be returned immediately with no credit.**
- III) Show your work. Explain your answers using FULL SENTENCES;
- IV) No late assignments will be accepted for credit.