

Abstract Algebra, Newberger, Fall 2006

Homework: Sections 3.2

due Tuesday, September 19

- I. Uniqueness. (10 points) Page 62 #3.
- II. Subrings. (10 points) Page 63 #7. For parts (a) and (b), you need not prove that S is a subring, since you will do that in general in part (c).
- III. Zero divisors. Choose one of the following two problems.
 - A. Fundamental: page 63#16
 - B. Challenging: page 64#19.
- IV. Units. (10 points) Choose one of the following two problems.
 - A. Fundamental: page 65 #28.
 - B. Challenging: page 63 #29.