

UH - Math 6302 - Dr. Heier - Fall 2015

HW 2

Due Wednesday, Oct. 7, at the beginning of class.

Use regular sheets of paper, stapled together.

Don't forget to write your name on page 1.

1. (3 points) Let  $p$  be a prime number. Let  $G$  be a group of order  $p^2$ . Prove that  $G$  is abelian.
2. (2 points) Section 4.4, Problem 1
3. (2 points) Section 4.5, Problem 14
4. (3 points) Section 4.5, Problem 15