

Math 305, Quiz 7
November 29, 2007

Name: _____

- (1) (5 pts) Use the extended version of Sylow's Theorem to show that every group of order 6 has only one subgroup of order 3. Also give an example of a group of order 6 with more than one subgroup of order 2.

- (2) (5 pts) Give an example of a finite ring which is not an integral domain and an example of a noncommutative ring with unit.