MATH 430, MODERN ALGEBRA, SPRING 2011

PROBLEM SET 1

1. Do the following Exercises from the book:
   
   • Exercises 4: 19, 29, 32
   • Exercises 5: 26, 46, 50

2. Give an example of a finite group G and two elements $a, b \in G$ such that $(ab)^2$ is not equal to $(a^2)(b^2)$. 