

# **Introduction to Abstract Algebra I** – Math 444 CRN 13241

## Homework # 1

Due on **Wednesday, October 9**

- HOMEWORK IS (usually) DUE on WEDNESDAYS. You submit it online in Canvas (deadline is midnight).
- We use 8th edition of Fraleigh-Brand book (you can find electronic version in Canvas); most of exercises will be taken from there.
- For all the problems you have to write a complete (and preferably short) proof.
- Please DO NOT submit solutions to the optional problems. But you can start writing solutions into a file or a paper. Everyone who will submit correct solutions of 10 optional problems in the end of the class will get extra credit points.
- Problems: 0.1, 0.2, 0.4, 0.15, 0.24, 0.26, 0.30, 0.32, 0.34, 1.7, 1.8, 1.10.

Solve but don't hand in: 1.1, 1.2, 1.3, 1.4, 1.5, 1.6.

Optional problems: 0.17, 0.18, 0.19.