

Introduction to Abstract Algebra II – Math 445 CRN 23300

Homework # 1

Due on **Wednesday, January 14**

- 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: 22.12, 22.18, 22.20, 22.21, 22.26, 22.28, 22.39, 22.40, 22.42, 22.43.

Solve but don't hand in: 22.2, 22.4, 22.6, 22.11, 22.22, 22.24, 22.25, 22.27, 22.29, 22.35, 22.41.

Optional problems: 22.46, 22.48, 22.49, 22.50.