When I am working on a problem I never think about beauty. I only think about how to solve the problem. But when I have finished, if the solution is not beautiful, I know it is wrong.

-Buckminster Fuller

Math 4303 FUNDAMENTALS OF MATHEMATICS

Fall 2012

Group A

Tuesday, November 20

Be ready to present Parts I, II, and III on November 27 and November 29.

Solving equations of the form ax+b=cx+d

Section 4.2.2

- **Part I: Definitions.** Define the following, before reading Section 4.2.2, providing the names for their respective properties:
 - 1. Field.
 - 2. Group.
- Part II: Test your understanding. Answer this part on your own.
 - **4.2.2** Problems: 1, 9
- Part III: Show your reasoning. You are more than welcome to work with someone for this part.
 - **4.2.2 Problems:** 2 (only prove existence of multiplicative inverse), 6