Math 340 Spring 2014 Homework 1, due in discussion of the week of 01/31/14—Linear Equations

Remark. Answers for questions, which are not definitions, should be written in the following format:

- A) Result.
- B) If possible the name of the method you used.
- C) The computation.
 - 1. Do Exercises 1–14 in section 1.1 on pages 8-9 of the book.
 - 2. Let X and Y be sets.

Definition 1. Define what it means that X is a <u>subset</u> of Y, denoted $X \subset Y$.

Definition 2. Define the Cartesian product of X and Y, denoted $X \times Y$.

Definition 3. Define the notion of a <u>function</u> f from X to Y, denoted $f: X \to Y$.

- **Remarks** You are very much encouraged to work with other students. However, submit your work alone.
 - The TA and the Lecturer will be happy to help you with the homework. Please visit the office hours.

Good Luck!