1. List the members of your group below. Underline your name.

2. Provide an example of an inference rule that is valid for both functional and multivalued dependencies and another that is valid for only the latter.

3. State _Armstrong's Axioms_ for functional dependencies and prove their soundness from first principles.

[additional space for answering the earlier question]

4. Devise an entity-relationship diagram to model the domain of the *roombox* application of the homework assignment.

5. Map your diagram of Question 4 to a relational schema.