Homework 2

Due: 9/19

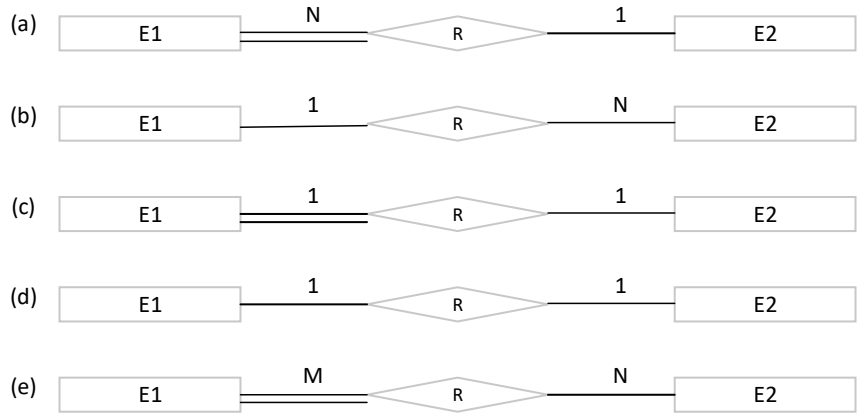
Note: Your answers must be accurate and unambiguous. Otherwise, points will be deducted.

Problem 1 (10 points). Answer the following questions.
(1). Describe the difference between *composite attribute* and *multi-valued attribute*. Show one example of each type.
(2). Describe the difference between *stored attribute* and *derived attribute*. Show one example of each type.
(3). Describe the difference between *entity* and *entity type*.
(4). Describe the difference between *relationship instance* and *relationship type*.

Problem 2 (10 points).
(1). Explain what a *recursive relationship type* means.
(2). Show a real-world example of recursive relationship type (don't use examples in the textbook).

Problem 3 (10 points). A *weak entity type* can have more than one owner entity type. Show a real-world example of a weak entity type that has two owner entity types.

Problem 4 (10 points). Convert the constraints in the following diagrams to (min, max) notation.



Include all answers in a single file and name it *LastName_FirstName_Hw2.doc* or *LastName_FirstName_Hw2.pdf* and submit it to Blackboard.