CSCE 476/876 Spring 2005
Recitation exercises #3

Berthe Y. Choueiry
Constraint Systems Laboratory
University of Nebraska-Lincoln
yzheng@cse.unl.edu

April 19, 2005

Reasoning & logic

Assume we know the following facts:

Jones, Smith, and Clark hold the jobs of programmer, knowledge engineer, and manager (not necessarily in that order).

Jones owes the programmer \$10.

The manager's spouse prohibits him/her borrowing money.

Smith is not married.

Your task is to figure out which person has which job. (The words *figure out* means briefly explain how you arrived at your answer. No justification means no points.)

Hint: You may derive the result by logic. For example, if you use symbol SP to indicate "Smith is the programmer", symbol SE to indicate "Smith is the knowledge engineer", symbol SM to indicate "Smith is the Manager", then $\neg SP$ means "Smith is not the programmer". Also SP implies $\neg SE$ and $\neg SM$.