CISC 3410 Fall 2012, Homework 6

- 1. Using the predicates P(x) to denote "x is a politician", R(x) to denote "x is rich", L(x) to denote "x is a lobbyist" and K(x, y) to denote "x knows y", write down first order logic, complete with variables and quantifiers to express:
 - (a) All lobbyists are rich.
 - (b) Some politicians are rich.
 - (c) All politicians know a rich lobbyist.
 - (d) Some lobbyists know a rich politician
 - (e) Everyone knows a rich politician or a rich lobbyist.