LGIC 010 & PHIL 005 Problem Set 4 Spring Term, 2012

- 1. (25 points) How long a list of pure monadic schemata involving only the predicate letters "F" and "G" can be constructed so that no two schemata on the list are equivalent?
- 2. (25 points) How long a list of pure monadic schemata involving only the predicate letters "F" and "G" can be constructed so that no two schemata on the list are equivalent and no schema on the list is implied by " $(\exists x)(Fx \land Gx)$ "?
- 3. (25 points) How long a list of pure monadic schemata involving only the predicate letters "F" and "G" can be constructed so that each schema on the list implies the next schema on the list, but is not implied by it?
- 4. (25 points) How long a list of pure monadic schemata involving only the predicate letters "F" and "G" can be constructed so that each schema on the list implies the next schema on the list, but is not implied by it, and each schema on the list implies " $(\forall x)(Fx \supset Gx)$ "?