Homework 9 - Inference

* If there is any problem, please contact TA. Name:_____ Student ID:____ Email: _____

Problem 1. (60 pts) Write down the principal solutions for the following sets of constraints:

- (a) $\{X = Int, Y = X \rightarrow X\}$
- (b) $\{Int \to Int = X \to Z\}$
- (c) $\{X \to Y = Y \to Z, Z = U \to W\}$
- (d) $\{Int = Int \rightarrow X\}$
- (e) $\{X = Int \to X\}$
- (f) $\{\}$

Problem 2. (40 pts)

Lemma 1. If a set of constraints q has a solution, then it has a most general one.

Prove this lemma.