Philosophy 142: Conditional Logics Exercises

November 10, 2008

1. Show $\Box(A \equiv B) \vdash_C (C > A) \equiv (C > B)$.

2. Show Modus Ponens for $>$ holds in C^+ but not in C. Specify a C counter-model.

3. Show that the following are false in C^+. Specify a counter-model, either by constructing a tableau, or directly.

(a) $p > q \models (p \wedge r) > q$
(b) $p > q, q > r \models p > r$

4. Show that $(p \vee q) > r \models (p > r) \wedge (q > r)$ fails in C but holds when we add the constraint $f_p(w) \cup f_q(w) \subseteq f_{p\vee q}(w)$.