Philosophy 1115 Homework Assignment #4

March 15, 2016

Six Validity Testing Problems (Truth-Table Methods)

Use a truth-table method (either the exhaustive method, or the "short" method) to determine whether each of the following three (3) LSL arguments/sequents is valid or invalid. For the "short" method, follow the guidelines discussed in lecture for presenting answers (*viz.*, see my handout with 3 examples).

1. $A \rightarrow C$
   $B \rightarrow C$
   $A \vee B$
   $\therefore C$

2. $I \rightarrow N$
   $(\sim K \vee D) \leftrightarrow N$
   $D \rightarrow \sim I$
   $\therefore \sim I \rightarrow (N \rightarrow K)$

3. $(\sim O \rightarrow \sim S) \,\&\, (O \rightarrow (M \,\&\, \sim I))$
   $\sim I \rightarrow \sim M$
   $\therefore \sim S$

For the next three, follow the directions in the text (*i.e.*, use the "short" method).

4. Page 66, I: #1
5. Page 66, I: #5
6. Page 66, I: #8