

Language and Inference – Assignment 1

Name:

June 19, 2013

Consider the following two sentences:

1. If it's raining, then John takes the bus to the summer school.
2. If John doesn't take the bus to the summer school, then it's not raining.

Questions: Is the second sentence informative with respect to the first one?
Is the second sentence consistent with respect to the first one?

Hint: translate both sentences in propositional logic. Then use the method of Tableaux to check whether the second sentences is entailed by the first one, and whether the two sentences (taken together) are inconsistent.