

Philosophy 500 — Quiz #8. June 14.

Name: _____

Grade: _____ / 10

A. Translate each of the following using the key given. (2 pts each)

UD: all animals

g: George

h: Hank

r: Rita

Mx: x is a monkey

Sx: x is a spider

Hx: x is hairy

Lxy: x likes y

1. Rita is the only non-hairy spider.
2. Some spider likes every animal other than Hank.
3. If any hairy monkey likes Rita, it's George.

B. For each of the following, state whether it's true or false. If it's true, explain in detail how you can be sure of that. If it's false, give a counterexample (i.e. an example which shows it's false). (2 pts. each)

1. If $A \rightarrow (B \leftrightarrow C)$ is a tautology, then $\neg B \therefore A \vee \neg C$ is valid.
2. If $\{A, B \vee C\}$ is consistent, then $\neg B \rightarrow A \vee C$ is contingent.