

Philosophy 500 — Quiz #7. June 9.

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. There's a spider who doesn't like any monkeys.
2. Rita doesn't like any monkey which is liked by some spider.
3. Not every spider that Rita likes likes every non-hairy monkey.

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 $A, B \therefore C$ is valid, then $\{A, B, C\}$ is consistent.
2. If A and B are logically equivalent to each other and C is contingent, then $C \therefore A \leftrightarrow B$ is valid.