

## Philosophy 500 — Quiz #6. June 7.

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. Hank is a hairy spider only if George likes both Rita and Hank.

2. No hairy monkey likes Rita.

3. George likes every spider which isn't hairy.

**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  $B \vee C$  isn't a contradiction.

2. If  $A \rightarrow B$  is contingent, so is  $B$ .