

Philosophy 500 — Quiz #4. May 24.

Name: _____

Grade: / 10

A. Using a complete truth table, determine whether or not the argument $\neg(A \& \neg B)$, $\neg B \rightarrow A \therefore A \& B$ is valid. (1 pt. for each row, 1 pt. for stating whether it's valid, and 1 pt. for explaining how you can tell that from the table)

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 is a tautology, then $A \rightarrow B$ is contingent, whatever B is.

2. If an argument is valid and all its premises are false, its conclusion is also false.