

MA 110-91 §1.3 - 1.5	Quiz #2	score	Name: _____ 26 January 2002
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1. Beginning with the statement "If it rains this afternoon, I will not play tennis," write its contrapositive, converse, and inverse. Label each one. (6 points)

2. Construct truth tables for the each of the following sentences and determine if they are logically equivalent. (7 points)

- (a) If I get a big paycheck, then I will visit the casinos or I will invest in mutual funds.
- (b) If I don't invest in mutual funds and don't visit the casinos, then I didn't get a big paycheck.

3. After defining the necessary symbols, write the following argument as a logical expression and determine if the argument is valid or invalid using a truth table. (7 points)

If you follow the rules, you have no trouble. If you are not clever, you have trouble. You are clever. Therefore, you do not follow the rules.