

MA 110-06 §1.4 - 2.1	Quiz #2	<i>score</i>	Name: _____ 11 September 2001
-------------------------	----------------	--------------	---

1. Write the converse and the contrapositive of the statement "*If it rains today, then I will not play tennis.*" Label both. Which statement (if either) is logically equivalent to the original statement? (6 points)

-
2. Write the following argument in symbolic form, build the truth table, and determine if the argument is valid or invalid. (8 points)

If I study enough, then I will do well in my class. If I get a new friend, then I won't study enough. Therefore, If I don't get a new friend, I will do well in my class.

-
3. Suppose that our universal set consists of the lower case letters, $U = \{a, b, c, \dots, m\}$. Let $A = \{a, c, e, g, i, k, m\}$ and $B = \{a, d, g, j, m\}$. Find the set $(A \cup B)'$. (6 points)