

MA 110-07 §1.1 - 1.3	Quiz #1	score	Name: _____ 16 January 2001
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1. Use a properly labeled Venn diagram to determine the validity of the following argument. Explain. (7 points)

1. All rocket scientists are boring.
2. Sue is boring.

Therefore, Sue is a rocket scientist.

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2. Using the symbolic representations

p : I am innocent;

q : I have an alibi;

r : I go to jail;

express the sentence "If I am not innocent and if I don't have an alibi, then I will go to jail." (6 points)

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3. Construct truth tables for the two statements $p \rightarrow (\sim q)$ and $q \rightarrow (\sim p)$ and determine if the two statements are logically equivalent. (7 points)