$\frac{\text{Math } 112 \text{ - } \text{Quiz } 4}{\text{March } 1, 2017}$

Name Key Score

Show all work to receive full credit. Supply explanations when necessary.

1. (2 points) Write the negation of the statement "All students eat pizza."

2. (3 points) Construct the truth table for $\sim p \wedge q$.

3. (2 points) Here are the statements p and q:

p: My dog is sick.

q: My dog must go to the vet.

What statement, in a grammatically correct sentence, is $p \lor \sim q$?

4. (2 points) Referring to the problem above, write the statement "If my dog is not sick, then my dog must not go to the vet" in symbolic form.

$$\sim p \rightarrow \sim q$$

5. (1 point) Write the truth table for $p \to q$.