$\qquad$
Score $\qquad$

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

1. (4 points) Given below are the statements $p$ and $q$.
$p$ : Today is Wednesday.
$q$ : I am very busy.
(a) What statement, in a grammatically correct sentence, is the conjunction of $p$ and $q$ ?
(b) What statement, in a grammatically correct sentence, is $p \vee \sim q$ ?
(c) Identify the statement "If today is Wednesday, then I am very busy" as a conjunction, disjunction, conditional, or biconditional.
2. (2 points) Write the negation of the statement "Some students take math."
3. (4 points) Construct the truth table for $\sim p \wedge \sim q$.
