Math	112 -	Quiz	5
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February 28, 2018

$Name_{-}$	
	Score

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 $\sim p \land \sim q$.