

# Math 1303 - Math in the Liberal Arts

## Quiz #4 - 2014.09.03

### Solutions

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1. Negate the statement: Some of the students in this class will not pass the course.

All of the students in this class will pass the course.

2. Construct a truth table for the following statement:  $[p \rightarrow (p \rightarrow q)] \rightarrow q$

$p$	$q$	$p \rightarrow q$	$p \rightarrow (p \rightarrow q)$	$[p \rightarrow (p \rightarrow q)] \rightarrow q$
T	T	T	T	T
T	F	F	F	T
F	T	T	T	T
F	F	T	T	F

3. How would you classify the statement from problem 2?

The statement is a conditional statement.