

Math 1303 - Math in the Liberal Arts

Quiz #3 - 2014.08.29

Solutions

1. Negate the statement: All of the students in this class will pass the course.

Some of the students will not pass the course.

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

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