

Math 2283 - Introduction to Logic

Quiz #6 - 2016.01.27 Solutions

Construct the truth table for the following sentential function:

$$[(p \wedge q) \rightarrow r] \leftrightarrow [(p \rightarrow r) \vee (q \rightarrow r)]$$

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