

Answer on Question #79828 – Math – Discrete Mathematics

Question

$$(p \rightarrow (q \wedge r)) \wedge (\neg p \rightarrow (\neg q \wedge \neg r))$$

Solution

p	q	r	$q \wedge r$	$p \rightarrow (q \wedge r)$	$\neg p$	$\neg q$	$\neg r$	$\neg q \wedge \neg r$	$\neg p \rightarrow (\neg q \wedge \neg r)$	S
T	T	T	T	T	F	F	F	F	T	T
T	T	F	F	F	F	F	T	F	T	F
T	F	T	F	F	F	T	F	F	T	F
T	F	F	F	F	F	T	T	T	T	F
F	T	T	T	T	T	F	F	F	F	F
F	T	F	F	T	T	F	T	F	F	F
F	F	T	F	T	T	T	F	F	F	F
F	F	F	F	T	T	T	T	T	T	T

The truth table was given, it is not a tautology.