Negations

Earlier, we defined ***p*** as "It is snowing." How do you think we will interpret **~*p***? That's right, "It is not snowing."

Let's look at a truth table that contains negations and see how that plays out.

p	***q***	**~*p***	**~*q***	**~ *p* ∨ ~ *q***
T	T	F	F	F
T	F	F	T	T
F	T	T	F	T
F	F	T	T	T

Let's look at a truth table that contains negations and see how that plays out. Use the DEFINITIONS

Let's combine all these truth tables and see what we have.

p	q	$\sim p$	$\sim q$	$p \wedge q$	$p \vee q$	$\sim p \vee \sim q$	$\sim(p \vee q)$
T	T	F	F	T	T	F	F
T	F	F	T	F	T	T	F
F	T	T	F	F	T	T	F
F	F	T	T	F	F	T	T