Discrete Math: Logical Equivalence

When 2 statement forms have the same truth-values for each possible combination for the constitute statement variables the statement forms are said to be LOGICAL EQUIV.

Logically Equivalent

"p and q" if they are Logically Equivalent "P=q" is written.

Example Show that 7(7p) =p

PT TF T (7p) Truth table shows 7(7p) = p 7(7p) is logically Equinlent to p"

Example 2. Show that
$$7(p \cdot q) = 7p \wedge 7q$$
 $P_{\perp} = 1$
 $P_{\perp} = 1$