

## **Implication $p \Rightarrow q$**

Def: An implication  $p \Rightarrow q$  is a true if  $p$  is false or  $q$  is true.

$p$	$q$	$p \Rightarrow q$
T	T	T
T	F	F
F	T	T
F	F	T

## **If and only if $p \Leftrightarrow q$**

### **Axiom**

Def: An axiom is a proposition that is "assumed" to be true.