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$\cup$ Union "or"

$\vee$ or $p \vee q = p \vee q$

$\cap$ Intersection "and"

$\wedge$ and $p \wedge q = p \wedge q$

A' A not

$\sim p = \text{not } p$

$\vee$ or $p \vee q$			$\wedge$ and $p \wedge q$			$\sim p$	
p	q	$p \vee q$	p	q	$p \wedge q$	p	$\sim p$
T	T	T	T	T	T	T	F
T	F	T	T	F	F	F	T
F	T	T	F	T	F	F	T
F	F	F	F	F	F	T	F
only F, both F			only T, both T			opposite	

$P \rightarrow q$

If p, then q

p	q	$p \rightarrow q$
T	T	T
T	F	F
F	T	T
F	F	T
		only F when 1st T 2nd F

#Logic

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