

Truth tables - a summary

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Negation (*not*)

p	$\sim p$
T	F
F	T

Conjunction (*and*)

p	q	$p \& q$
T	T	T
T	F	F
F	T	F
F	F	F

Disjunction (*or*)

p	q	$p \vee q$
T	T	T
T	F	T
F	T	T
F	F	F

Implication (*if...then*)

p	q	$p \rightarrow q$
T	T	T
T	F	F
F	T	T
F	F	T

Equivalence (*if and only if*)

p	q	$p \equiv q$
T	T	T
T	F	F
F	T	F
F	F	T