MATH 321: TRUTH TABLES

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Here are the truth tables for the common logical connectives. The idea is, if we know the truth values of the inputs, then we know the truth value of the compound predicate.

P	Q	P and Q
T	T	T
T	F	F
F	T	F
F	F	F

P	Q	P or Q
T	T	T
T	F	T
F	T	T
F	F	F

P	not P
T	F
F	T

P	Q	if P, then Q
T	T	T
T	F	F
F	T	T
F	F	T

P	Q	P iff Q
T	T	T
T	F	F
F	T	F
F	F	T

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