

# Truth Table for Conditional, Modus Ponens, Modus Tollens, Affirming the Consequent, and Denying the Antecedent

Truth Table for the Conditional		
P	Q	IF P THEN Q
T	T	T
T	F	F
F	T	T
F	F	T

Truth Table for Modus Ponens				
P	Q	IF P THEN Q	P	Q
T	T	T	T	T
T	F	F	T	F
F	T	T	F	T
F	F	T	F	F

Truth Table for Modus Tollens				
P	Q	IF P THEN Q	NOT-Q	NOT-P
T	T	T	F	F
T	F	F	T	F
F	T	T	F	T
F	F	T	T	T

Truth Table for Affirming the Consequent				
P	Q	IF P THEN Q	Q	P
T	T	T	T	T
T	F	F	F	T
F	T	T	T	F
F	F	T	F	F

Truth Table for Denying the Antecedent				
P	Q	IF P THEN Q	NOT-P	NOT-Q
T	T	T	F	F
T	F	F	F	T
F	T	T	T	F
F	F	T	T	T