

P	Q	Not (P and Q)
T	T	F
F	T	F
T	F	F
F	F	T

P	Q	(not P) and Q
T	T	F
F	T	T
T	F	F
F	F	F

P	Q	(not P) or (not Q)
T	T	F
F	T	T
T	F	T
F	F	T

P	Q	R	(P and Q) or R
T	T	T	T
F	T	T	T
T	F	T	T
T	T	F	T
T	F	F	F
F	T	F	F
F	F	T	T
F	F	F	F

P	Q	R	(P or R) and (Q or R)
T	T	T	T
F	T	T	T
T	F	T	T
T	T	F	T
T	F	F	F
F	T	F	F
F	F	T	T
F	F	F	F