p	$\sim p$
T	F
F	T

p	q	$p \wedge q$
T	T	T
T	F	F
F	T	F
F	F	F

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

p	q	$p \wedge q$	$p \vee q$	$\sim p$
T	T	T	T	F
T	F	F	T	F
F	T	F	T	T
F	F	F	F	T

p	q	$\sim p$	$\sim q$	$p \wedge q$	$\sim (p \wedge q)$	$\sim p \vee \sim q$
T	T	F	F	T	F	F
T	F	F	T	F	T	T
F	T	T	F	F	T	T
F	F	T	T	F	T	T

Commutative laws:	$p \wedge q$	$\equiv$	$q \wedge p$	$p \vee q$	$\equiv$	$q \vee p$
Associative laws:	$(p \wedge q) \wedge r$	$\equiv$	$p \wedge (q \wedge r)$	$(p \vee q) \vee r$	$\equiv$	$p \vee (q \vee r)$
Distributive laws:	$p \wedge (q \vee r)$	$\equiv$	$(p \wedge q) \vee (p \wedge r)$	$p \vee (q \wedge r)$	$\equiv$	$(p \vee q) \wedge (p \vee r)$
Absorption laws:	$p \wedge (p \vee q)$	$\equiv$	p	$p \vee (p \wedge q)$	$\equiv$	p
Idempotent laws:	$p \wedge p$	$\equiv$	p	$p \vee p$	$\equiv$	p
Double negative law:	$\sim\sim p$	$\equiv$	p			
DeMorgan's laws:	$\sim (p \wedge q)$	$\equiv$	$\sim p \vee \sim q$	$\sim (p \vee q)$	$\equiv$	$\sim p \wedge \sim q$
Negation laws:	$p \vee \sim p$	$\equiv$	T	$p \wedge \sim p$	$\equiv$	F
Universal bound laws:	$p \vee T$	$\equiv$	T	$p \wedge F$	$\equiv$	F
Identity laws:	$p \wedge T$	$\equiv$	p	$p \vee F$	$\equiv$	p
Tautology and contradiction laws:	$\sim T$	$\equiv$	F	$\sim F$	$\equiv$	T