

vii) Identity Laws:

* $p \wedge T \equiv p$ (Conjunction with true)

* $p \vee F \equiv p$ (disjunction with false)

* $p \vee T \equiv T$ (disjunction with true)

* $p \wedge F \equiv F$ (Conjunction with false)

viii) Domination Laws:

* $p \vee p \equiv p$ (disjunction idempotence)

* $p \wedge p \equiv p$ (Conjunction idempotence)

ix) Absorption Laws:

* $p \vee (p \wedge q) \equiv p$ (disjunction absorption)

* $p \wedge (p \vee q) \equiv p$ (Conjunction absorption)

x) Implication Equivalences:

* $p \rightarrow q \equiv \neg p \vee q$ (material implication)

* $p \rightarrow q \equiv \neg(p \wedge \neg q)$ (conditional elimination)

* $p \rightarrow q \equiv \neg q \rightarrow \neg p$ (Contrapositive)

x) Biconditional Equivalence:

* $p \leftrightarrow q \equiv (p \rightarrow q) \wedge (q \rightarrow p)$