

Laws of Logic	
Law of Identity	$A=A$ $\bar{A} + \bar{A}$
Commutative Law	$A \cdot B = B \cdot A$ $A + B = B + A$
Associative Law	$A \cdot (B \cdot C) = A \cdot B \cdot C$ $A + (B + C) = A + B + C$
Idempotent Law	$A \cdot A = A$ $A + A = A$
Double Negative Law	$\bar{\bar{A}} = A$
Complementary Law	$A \cdot \bar{A} = 0$ $A + \bar{A} = 1$
Law of Intersection	$A \cdot 1 = A$ $A \cdot 0 = 0$
Law of Union	$A + 1 = 1$ $A + 0 = A$
DeMorgan's Theorem	$\overline{AB} = \bar{A} + \bar{B}$ $\overline{A + B} = \bar{A} \cdot \bar{B}$
Distributive Law	$A \cdot (B + C) = (A \cdot B) + (A \cdot C)$ $A + (B \cdot C) = (A + B) \cdot (A + C)$
Law of Absorption	$A \cdot (A + B) = A$ $A + (A \cdot B) = A$
Law of Common Identities	$A \cdot (\bar{A} + B) = A \cdot B$ $A + (\bar{A} \cdot B) = A + B$