

Boolean Identities

Identity	$A + 0 = A$	$A \cdot 1 = A$
Dominance	$A + 1 = 1$	$A \cdot 0 = 0$
Idempotence	$A + A = A$	$A \cdot A = A$
Inverse	$A + \bar{A} = 1$	$A \cdot \bar{A} = 0$
Commutative	$A + B = B + A$	$A \cdot B = B \cdot A$
Associative	$A + (B + C) = (A + B) + C$	$A \cdot (B \cdot C) = (A \cdot B) \cdot C$
Distributive	$A \cdot (B + C) = A \cdot B + A \cdot C$	$A + B \cdot C = (A + B) \cdot (A + C)$
Absorption	$A \cdot (A + B) = A$	$A + A \cdot B = A$
DeMorgan's	$\overline{(A + B)} = \bar{A} \cdot \bar{B}$	$\overline{(A \cdot B)} = \bar{A} + \bar{B}$
Double Complement	$\bar{\bar{A}} = A$	
FOIL	$(A + B) \cdot (C + D) = A \cdot C + A \cdot D + B \cdot C + B \cdot D$	
Disappearing opposite	$A + \bar{A} \cdot B = A + B$	