

Properties of Boolean Algebra

PROPERTY	AND	OR
Commutative	$AB = BA$	$A + B = B + A$
Associative	$(AB)C = A(BC)$	$(A + B) + C = A + (B + C)$
Distributive	$A(B + C) = (AB) + (AC)$	$A + (BC) = (A + B)(A + C)$
Identity	$A1 = A$	$A + 0 = A$
Complement	$A(A') = 0$	$A + (A') = 1$
De Morgan's law	$(AB)' = A' \text{ OR } B'$	$(A + B)' = A'B'$