BOOLEOVA ALGEBRA

$A = A$

$\overline{A} = \overline{A}$

$A + A = A$

$AA = A$

$\overline{\overline{A}} = A$

$A\overline{A} = 0$

$A + \overline{A} = 1$

$A \cdot 1 = A$

$A \cdot 0 = 0$

$A + 1 = 1$

$A + 0 = A$

$AB = BA$

$A + B = B + A$

$A(BC) = (AB)C$

$A + (B + C) = (A + B) + C = A + B + C$

$\overline{AB} = \overline{A} + \overline{B}$

$\overline{A + B} = \bar{A}\bar{B}$

$A(B + C) = AB + AC$

$A + BC = (A + B)(A + C)$

$A(A + B) = A + B$

$A + AB = A$

$A\left(\overline{A} + B\right) = AB$

$A + \overline{A}B = A + B$