ZÁKONY BOOLEOVY ALGEBRY

KOMUTATIVITA : $A+B = B+A$; $AB = BA$

ASOCIATIVITA : $A+(B+C) = (A+B)+C$; $A\cdot(BC) = (AB)\cdot C$

DISTRIBUTIVITA : $A+(BC) = (A+B)(A+C)$;
$A(B+C) = (AB)+(AC)$

NEUTRALITA 0 ω 1 : $A+0 = A$; $A\cdot 1 = A$

VLASTNOSTI KOMPLEMENTU: $A+\bar{A} = 1$; $A\cdot\bar{A} = 0$

AGRESIVITA 0 ω 1 : $A\cdot 0 = 0$; $A+1 = 1$

IDEMPOTENCE : $A\cdot A = A$; $A+A = A$

DVOJÍ NEGACE : $\bar{\bar{A}} = A$

ABSORPCE : $A+AB = A$; $A(A+B) = A$

ABSORPCE NEGACE: $A+\bar{A}B = A+B$; $A(\bar{A}+B) = AB$
$\bar{A}+AB = \bar{A}+B$

CONSENSUS : $AB+\bar{A}C+BC = AB+\bar{A}C$
$(A+B)(\bar{A}+C)(B+C) = (A+B)(\bar{A}+C)$

AXIOMY BOOLEOVY ALGEBRY:

$1\cdot 1 = 1$	$0+0 = 0$
$1\cdot 0 = 0$	$0+1 = 1$
$0\cdot 0 = 0$	$1+1 = 1$
$\bar{1} = 0$	$\bar{0} = 1$

ZÁKONY DE MORGANOVY:
1) $\overline{A+B+C+\cdots} = \bar{A}\cdot\bar{B}\cdot\bar{C}\cdot\ldots$
2) $\overline{A\cdot B\cdot C\cdot\ldots} = \bar{A}+\bar{B}+\bar{C}+$