Szavazó áramkör

A	B	C	Y
0	0	0	
0	0	1	
0	1	1	
1	1	1	

~~A B C~~

A	B	C	Y
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	1 → $A\bar{B}C$
1	0	1	1 → $A\bar{B}C$
1	1	0	1 → $AB\bar{C}$
1	1	1	1 → ABC

vagy

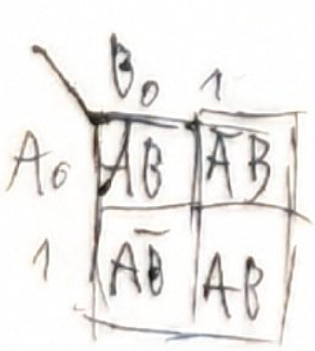
$$Y = \bar{A}BC + A\bar{B}C + ABC + AB\bar{C}$$

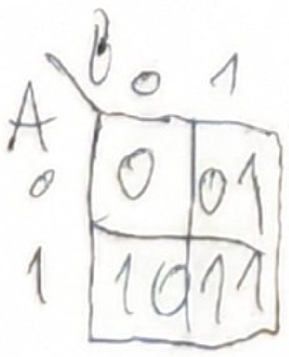
$$Y = (\bar{A}+B+C)\cdot(A+\bar{B}+C)(A+B+\bar{C})\cdot(A+B+C)$$

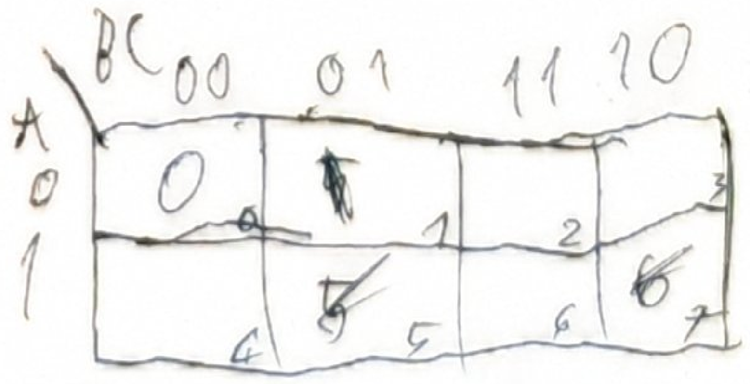
Egyszerűsített konjunktív normálalak

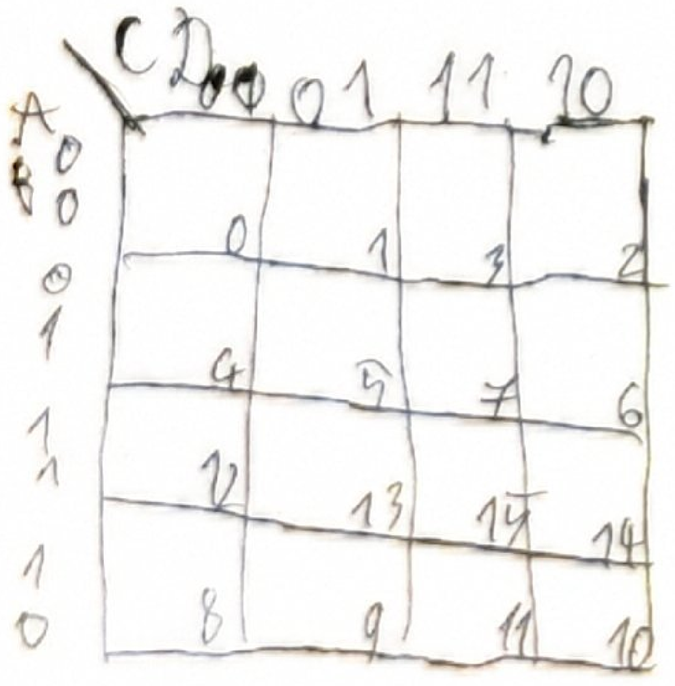
$$Y = (A+B)\cdot(B+C)\cdot(A+C)\cdot(A+B+C)$$

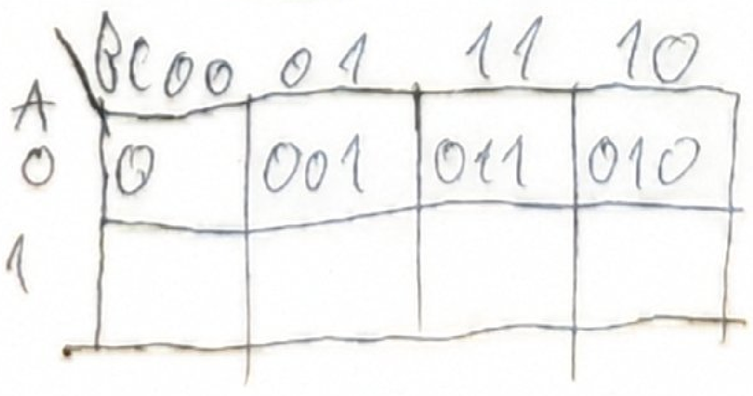
MAXTERM



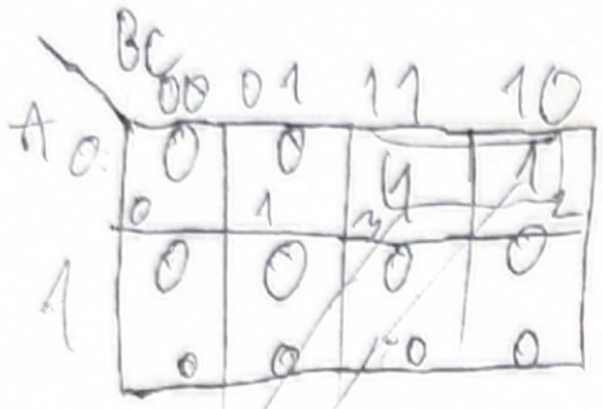




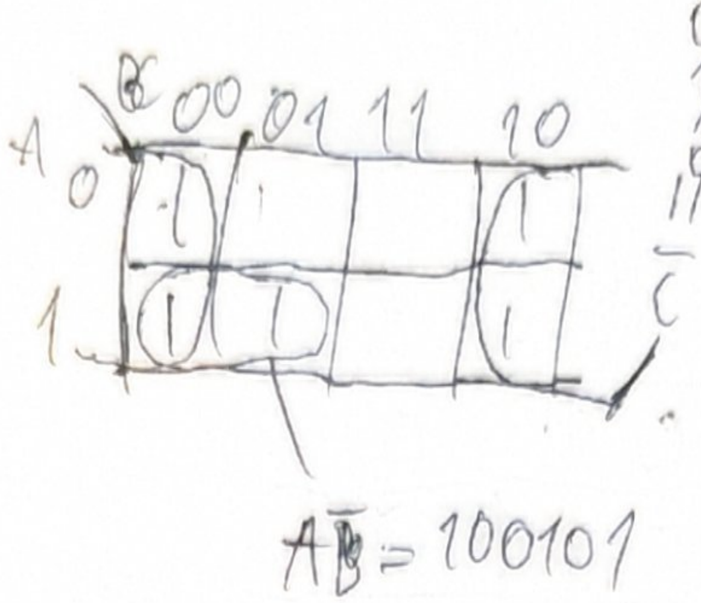




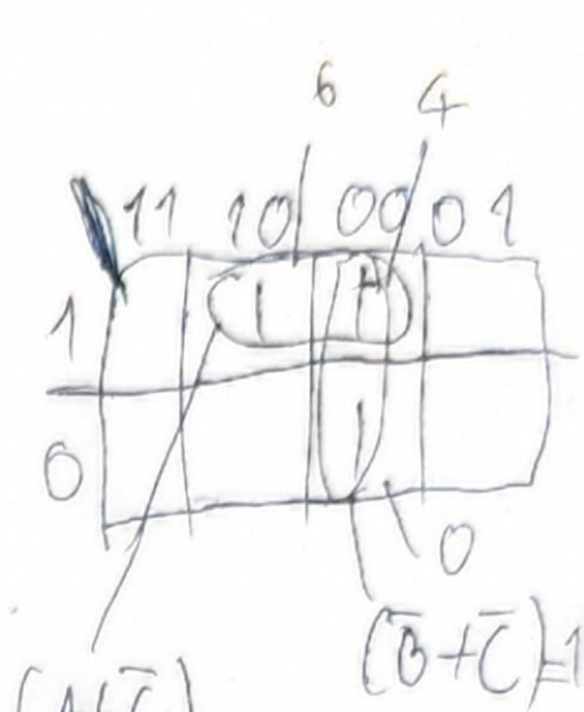
$$Y = \bar{A}\,B\,\bar{C} + \bar{A}\,B\,C$$



ABC
011
010
$\bar{A}B$



$A\bar{B} = 100101$



$(\bar{B}+\bar{C}) = 100\,000$

$(A+\bar{C}) = 110\,100$

$$Y = A\cdot\bar{B} + \bar{C}$$

$$Y = 100101 + 010110$$