P1

6 de outubro de 2020 08:33

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

A	B	C	F
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	0
1	0	0	0
1	0	1	0
1	1	0	1
1	1	1	0

$F(0,0,0) = \bar{0}\cdot\bar{0}\cdot 0 + 0\cdot\bar{0} = 1\cdot 1\cdot 0 + 0\cdot 1 = 0$

$F(0,0,1) = \bar{0}\cdot\bar{0}\cdot 1 + 0\bar{1} = 1\cdot 1\cdot 1 + 0\cdot 0 = 1$

$F(0,1,0) = \ldots$

$F(0,1,1) = \ldots$

//

FORMA CANÓNICA DE SOMA DE PRODUTOS

A	B	C	F
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	0
1	0	0	0
1	0	1	0
1	1	0	1
1	1	1	0

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

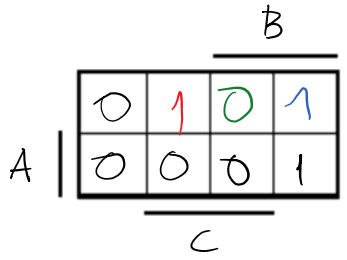
FORMA CANÓNICA DE PRODUTO DE SOMAS

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

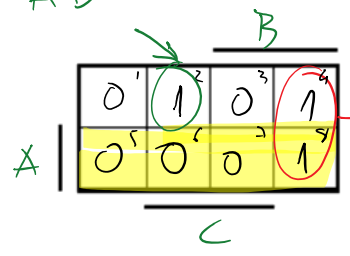
//

MAPAS DE KARNAUGH

A	B	C	F	
0	0	0	0	1
0	0	1	1	2
0	1	0	1	3
0	1	1	0	4
1	0	0	0	5
1	0	1	0	6
1	1	0	1	7
1	1	1	0	8



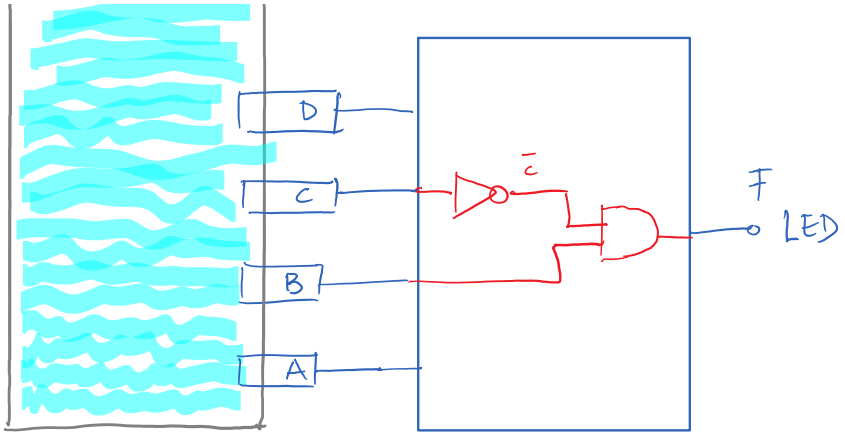
$\bar{A}\cdot\bar{B}\cdot C$ Regra $(1,2,4,3)(5\,6\,8\,7)$



$F(A,B,C) = B\bar{C} + \bar{A}\bar{B}C$

21-10-2020

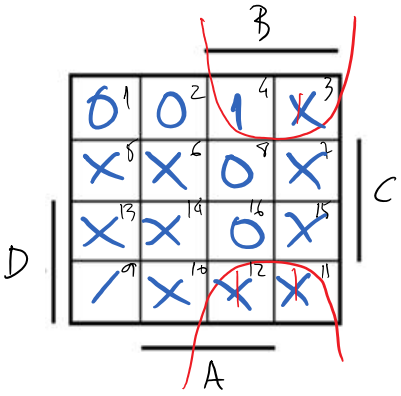
D	C	B	A	F	
0	0	0	0	0	1
0	0	0	1	0	2



D	C	B	A	F	
0	0	0	0	0	1
0	0	0	1	0	2
0	0	1	0	X	3
0	0	1	1	1	4
0	1	0	0	X	5
0	1	0	1	X	6
0	1	1	0	X	7
0	1	1	1	0	8
1	0	0	0	X	9
1	0	0	1	X	10
1	0	1	0	X	11
1	0	1	1	X	12
1	1	0	0	X	13
1	1	0	1	X	14
1	1	1	0	X	15
1	1	1	1	0	16

1 2 3 4

Regra 1243



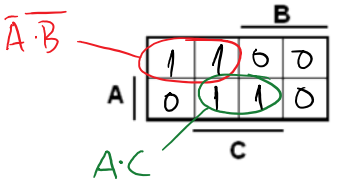
$F(D,C,B,A) = \bar{C} \cdot B$

26-10-2020

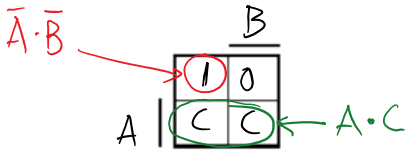
A	B	C	F
0	0	0	1
0	0	1	1
0	1	0	0
0	1	1	0
1	0	0	0
1	0	1	1
1	1	0	0
1	1	1	1

A	B	F
0	0	1
0	1	0
1	0	C
1	1	C

Regra 1243



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



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

A	B	C	D	F	
0	0	0	0	0	
0	0	0	1	1	$\bar{C} \cdot D$
0	0	1	0	0	
0	0	1	1	0	

A	B	F
0	0	$\bar{C} \cdot D$
0	1	$\bar{C} \cdot \bar{D} + \bar{C} D + C \bar{D}$
1	0	$\bar{C} \cdot D$
1	1	$\bar{C} \bar{D} + \bar{C} \cdot D + C \bar{D}$

0	0	0	1	1
0	0	1	0	0
0	0	1	1	0
0	1	0	0	1
0	1	0	1	1
0	1	1	0	1
0	1	1	1	0
1	0	0	0	0
1	0	0	1	1
1	0	1	0	0
1	0	1	1	0
1	1	0	0	1
1	1	0	1	1
1	1	1	0	0
1	1	1	1	1

$\bar{C}\cdot D$

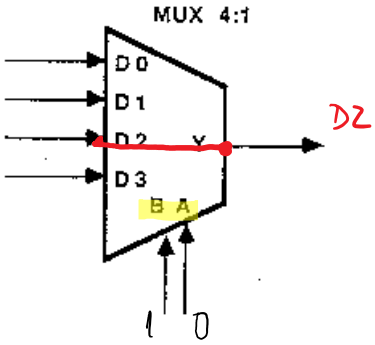
$\bar{C}\cdot\bar{D}$

$\bar{C} D$

$C\bar{D}$

0	1	$\bar{C}\cdot\bar{D} + \bar{C}D + C\bar{D}$
1	0	$\bar{C}\cdot D$
1	1	$\bar{C}\bar{D} + \bar{C}\cdot D + C D$

02-11.2020



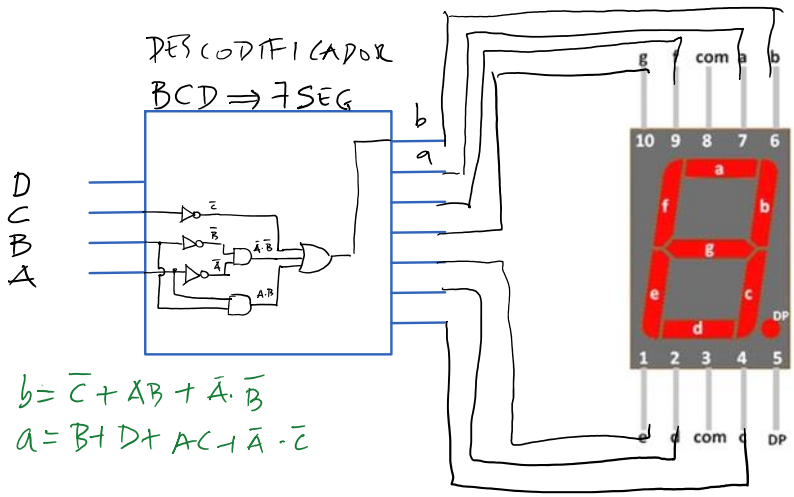
DEC
0
1
2
3

B	A	Y
0	0	D0
0	1	D1
1	0	D2
1	1	D3

04-11-2020

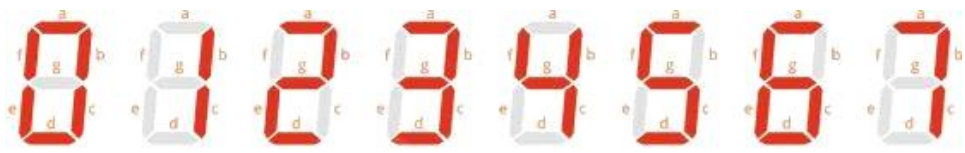
CODIGO BCD

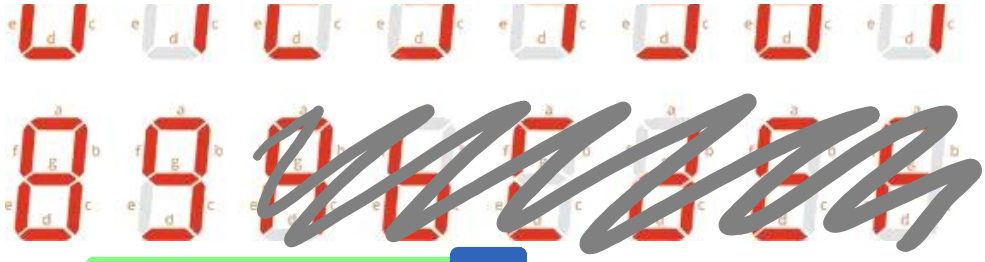
DEC	D	C	B	A
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1



$b = \bar{C} + AB + \bar{A}\cdot\bar{B}$

$a = B + D + AC + \bar{A}\cdot\bar{C}$

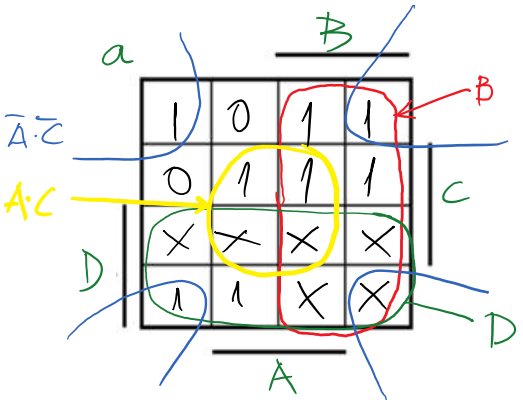


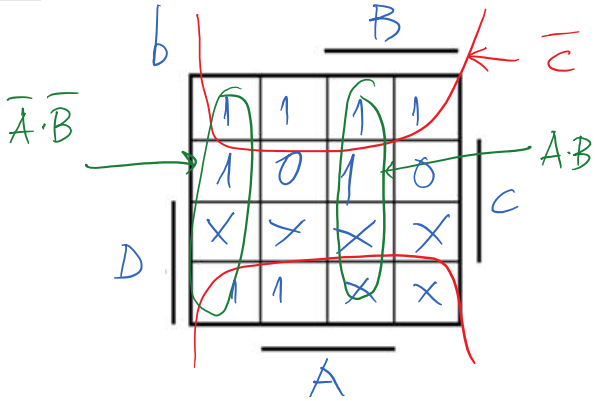


Regra 1, 2, 4, 3

DEC	D	C	B	A	a	b	c	d	e	f	g
0	0	0	0	0	1	1	1	1	1	1	0
1	0	0	0	1	0	1	1	0	0	0	0
2	0	0	1	0	1	1	0	1	1	0	1
3	0	0	1	1	1	1	1	1	0	0	1
4	0	1	0	0	0	1	1	0	0	1	1
5	0	1	0	1	1	0	1	1	0	1	1
6	0	1	1	0	1	0	1	1	1	1	1
7	0	1	1	1	1	1	1	0	0	0	0
8	1	0	0	0	1	1	1	1	1	1	1
9	1	0	0	1	1	1	1	1	0	1	1
	1	0	1	0	X	X	X	X	X	X	X
	1	0	1	1	X	X	X	X	X	X	X
	1	1	0	0	X	X	X	X	X	X	X
	1	1	0	1	X	X	X	X	X	X	X
	1	1	1	0	X	X	X	X	X	X	X
	1	1	1	1	X	X	X	X	X	X	X

$a(D,C,B,A) = B + D + \bar{A}\cdot\bar{C} + A\cdot C$



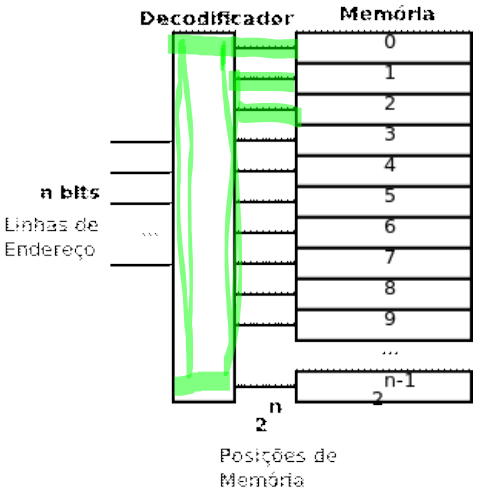


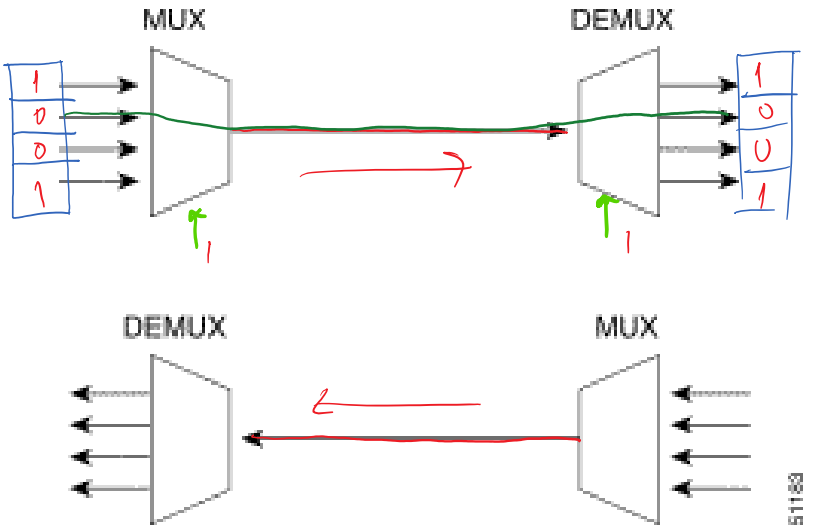
$b(D,C,B,A) = \bar{C} + A\cdot B + \bar{A}\,\bar{B}$

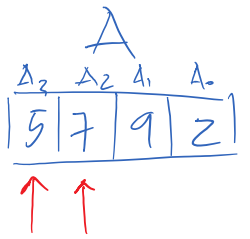
$c(D,C,B,A) =$

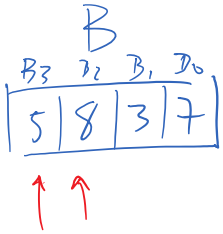
$d(D,C,B,A) =$

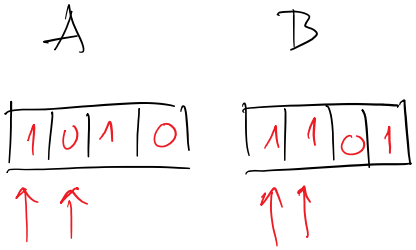
09-11-2020











11-11-2020

$$\begin{array}{r} 15 \\ +27 \\ \hline 42 \end{array}$$

$$\begin{array}{r} 101100 \\ +\ 110101 \\ \hline 1100001 \end{array}$$

1	1	1	0	0
+1	+1	+0	+1	+0
11	10	1	1	0

$$\begin{array}{r} A \\ +\ B \\ \hline S \end{array}$$

$$\begin{array}{r} C_3\ C_2\ C_1\ C_0 \\ A_3\ A_2\ A_1\ A_0 \\ B_3\ B_2\ B_1\ B_0 \\ \hline S_3\ S_2\ S_1\ S_0 \end{array}$$

$$\begin{array}{r} C_{i+1}\ C_i \\ A_i \\ B_i \\ \hline S_i \end{array}$$