

Sistemas Computacionais

Prof: Javien

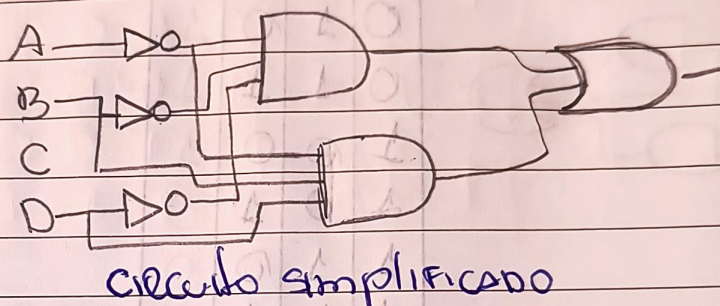
Aluno: Natanael Ferreira

matrícula: UC2420024

① Expressões: $\bar{A}\bar{B}\bar{C}\bar{D} + \bar{A}\bar{B}C\bar{D} + \bar{A}B\bar{C}\bar{D} + \bar{A}BCD$

Exp. simplificada: $\bar{A}\bar{B}\bar{D} + \bar{A}BD$

$\frac{AB}{CD}$	00	01	11	10
00	1			1
01		1	1	
11				
10				

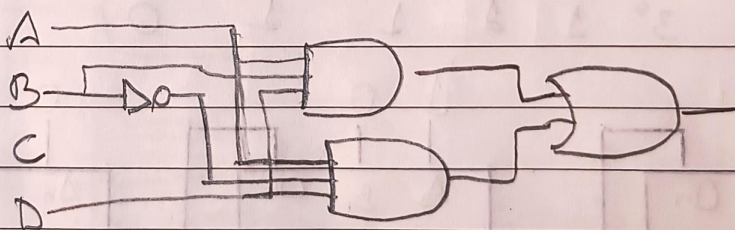


Tab. 02

Expressões: $\bar{A}\bar{B}\bar{C}\bar{D} + \bar{A}\bar{B}C\bar{D} + \bar{A}B\bar{C}\bar{D} + \bar{A}BCD$

Exp. simplificada: $\bar{A}BD + \bar{A}\bar{B}\bar{D}$

$\frac{AB}{CD}$	00	01	11	10
00				
01				
11		1	1	
10	1			1



Binários:

$\bar{A}\bar{B}\bar{C}\bar{D} + \bar{A}\bar{B}C\bar{D} + \bar{A}B\bar{C}\bar{D} + \bar{A}BCD$

0000 + 0010 + 0101 + 0111

$\bar{A}\bar{B}\bar{C}\bar{D} + \bar{A}\bar{B}C\bar{D} + \bar{A}B\bar{C}\bar{D} + \bar{A}BCD$

1000 + 1010 + 1101 + 1111

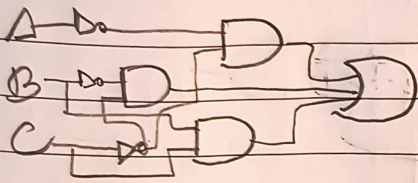
② $F(A, B, C) = \bar{A}\bar{B}\bar{C} + \bar{A}\bar{B}C + \bar{A}B\bar{C} + A\bar{B}\bar{C} + ABC$

forma binária inicial: 000 + 010 + 011 + 100 + 111

Exp. Simplificada: $\bar{B}\bar{C} + BC + \bar{A}\bar{C}$

A \ B	00	01	11	10
0	1		1	1
1	1		1	

A	B	C	S
0	0	0	1
0	0	1	0
0	1	0	1
0	1	1	1
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	1

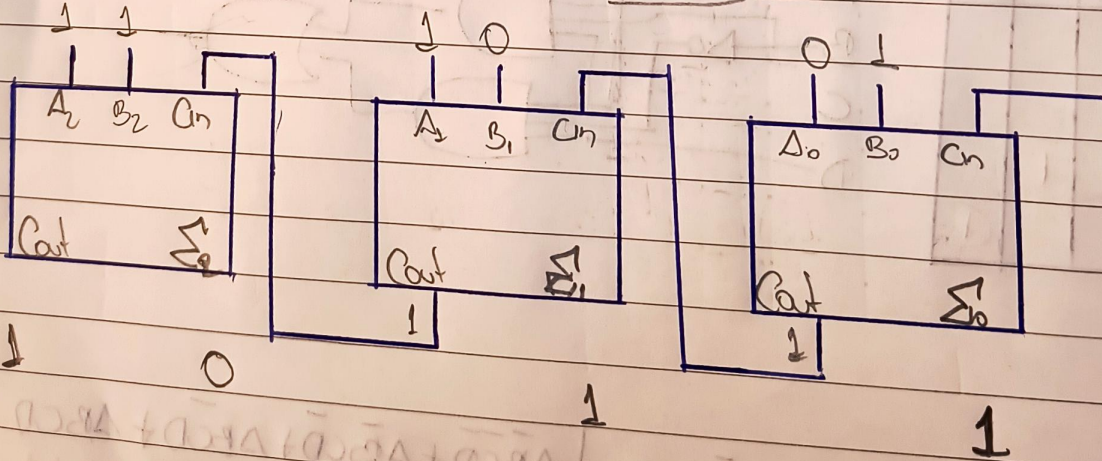


③ 110

101

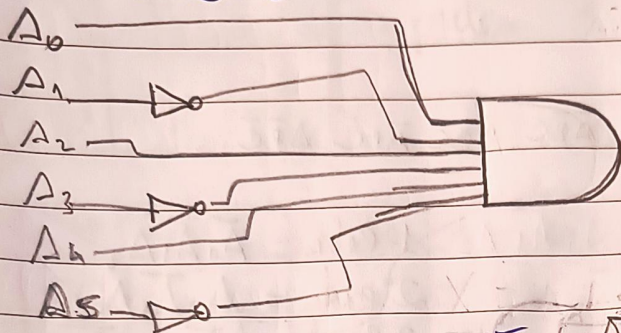
A B Cn Cout Σ

1°	0	1	0	1	1
2°	1	0	1	1	1
3°	1	1	1	1	0

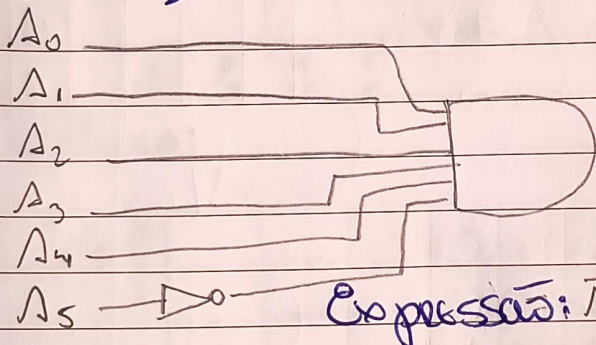


4

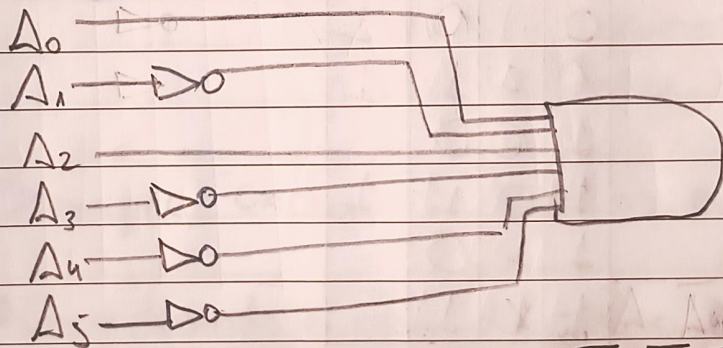
(a) 101010



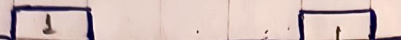
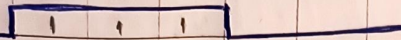
(b) 111110



(c) 000101



⑤

 A_0  = A A_1  = B A_2  = C $0\bar{1}2$ $0\bar{1}2$ $0\bar{1}2$ $0\bar{1}2$ $0\bar{1}2$ 2nd AND3rd AND 3rd AND $A\bar{B}C$ $\bar{A}\bar{B}C$ $\bar{A}BC$ $A\bar{B}\bar{C}$ $A\bar{B}C$  A_2, A_1, A_0

1st AND = $\bar{A}_0 A_1 A_2$

2nd AND = $A_0 \bar{A}_1 A_2$

3rd AND = $A_0 A_1 \bar{A}_2$

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

S 

A	B	C	S
0	0	0	
0	0	1	
0	1	0	1
0	1	1	1
1	0	0	
1	0	1	1
1	1	0	
1	1	1	