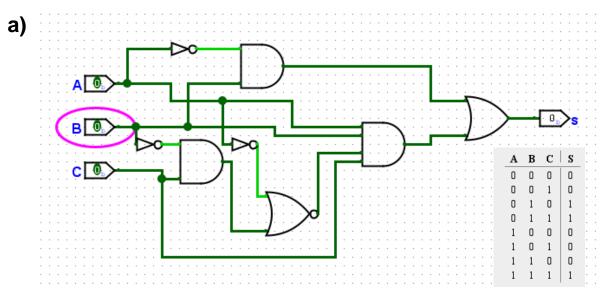
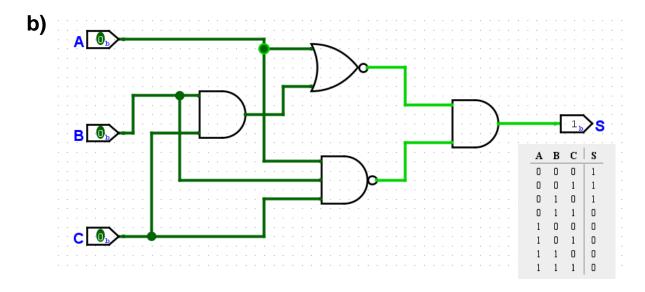
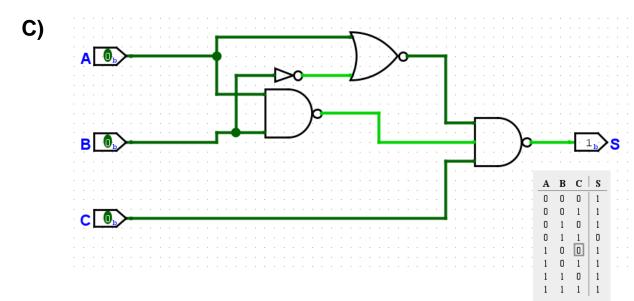
Lista de Exercícios – Circuitos Digitais Andrew Gabriel Gomes – CC – 2ªFase









3	Δ	4)	Λ_
3	C	41	I A-

A	В	С	D	S
0	0	0	0	1
0	0	0	1	1
0	0	1	0	0
0	0	1	1	0
0	1	0	0	0
0	1	0	1	1
0	1	1	0	1
0	1	1	1	0
1	0	0	0	1
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	1
1	1	1	1	0

 $S(A,B,C,D) = \sum m(0,1,5,6,8,9,12,13,14)$

m0 = (A'.B'.C'.D')

m1 = (A'.B'.C'.D)

m5 = (A'.B.C'.D)

m6 = (A'.B.C.D')

m8 = (A.B'.C'.D')

m9 = (A.B'.C'.D)

m12 = (A.B.C'.D')

m13 = (A.B.C'.D)

m14 = (A.B.C.D')

B-

A	В	С	S
0	0	0	0
0	0	1	0
0	1	0	1
0	1	1	1
1	0	0	1
1	0	1	1
1	1	0	1
1	1	1	0

ABCDS

 $S(A,B,C) = \sum m(2,3,4,5,6)$

m2 = (A'.B.C')

m3 = (A'.B.C)

m4 = (A.B'.C')

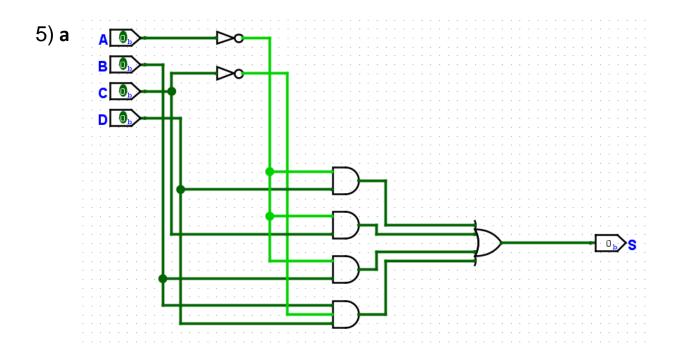
m5 = (A.B'.C.)

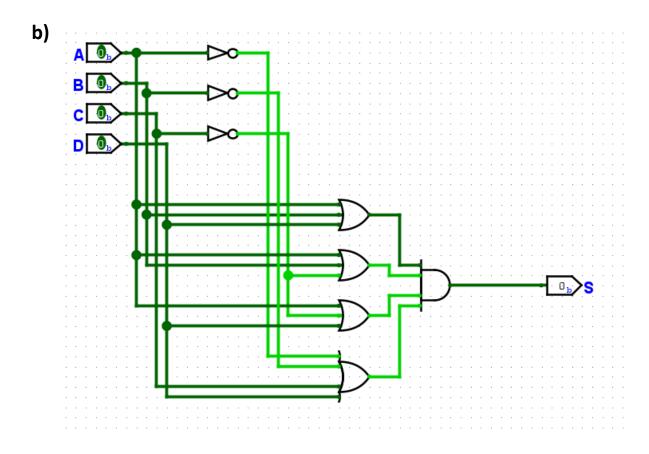
m6 = (A.B.C')

C-

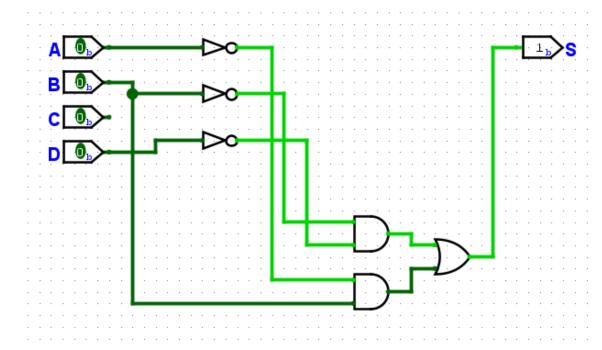
$S(A,B,C,D) = \sum m(0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15)$

	_	_	_		
0	0	0	0	1	m0 = (A'.B'.C'.D')
0	0	0	1	1	m1 = (A'.B'.C'.D)
0	0	1	0	1	m2 = (A'.B'.C.D')
0	0	1	1	1	m3 = (A'.B'.C.D)
0	1	0	0	1	m4 = (A'.B.C'.D')
0	1	0	1	1	m5 = (A'.B.C'.D)
0	1	1	0	1	m6 = (A'.B.C.D')
0	1	1	1	1	m7 = (A'.B.C.D)
1	0	0	0	1	m8 = (A.B'.C'.D')
1	0	0	1	1	m9 = (A.B'.C'.D)
1	0	1	0	1	m10 = (A.B'.C.D')
1	0	1	1	1	m11 = (A.B'.C.D)
1	1	0	0	1	m12 = (A.B.C'.D')
1	1	0	1	1	m13 = (A.B.C'.D)
1	1	1	0	1	m14 = (A.B.C.D')
1	1	1	1	1	m15 = (A.B.C.D)









6)

(A)			F		
, ,	0	0	0	0	
	0	1	1	1	
	1	0	1		
	1	1	0	0	

Expressões de saída

$$F = A \cdot B + A \cdot B$$

$$G = A \cdot B$$

B)	A	В	С	F
	0	0	0	1
	0	0	1	0
	0	1	0	1
	0	1	1	1
	1	0	0	0
	1	0	1	1
	1	1	0	0
	1	1	1	1

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