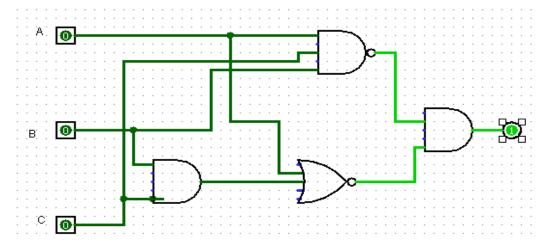
Atividade LogiSim, Circuitos Digitais. - Ciencias da Computação

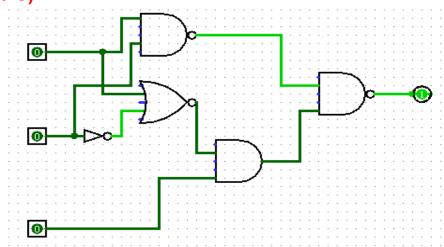
Igor Radtke

1-A)

1-B)







2-A)

a	b	с	x
0	0	0	0
0	0	1	0
0	1	Ô	1
0	1	1	1
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	1

2-B)

a	b	c	x
0	0	0	1
0	0	1	1
0	1	0	1
0	1	1	0
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	0

2-C)

a	b	с	x
0	0	0	1
0	0	1	1
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	1
1	1	0	1
1	1	1	1

3-A)

a	b	С	d	x
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

3-B)

a	b	С	d	х
0	0	0	0	0
0	0	0	1	0
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	1
1	0	0	0	1
1	0	0	1	1
1	0	1	0	1
1	0	1	1	1
1	1	0	0	1
1	1	0	1	1
1	1	1	0	0
1	1	1	1	0

3-C)

a	b	c	d	x
0	0	0	0	1
0	0	0	1	1
0	0	1	0	1
0	0	1	1	1
0	1	0	0	1
0	1	0	1	1
0	1	1	0	1
0	1	1	1	1
1	0	0	0	1
1	0	0	1	1
1	0	1	0	0
1	0	1	1	1
1	1	0	0	1
1	1	0	1	1
1	1	1	0	1
1	1	1	1	1

4-A) S=(a,b,c,d) = sum(m0, m1, m5, m6, m8, m9, m12, m13, m14)

	Minitermo	
0	'a . 'b . 'c . 'd	
1	'a . 'b . 'c . d	
5	'a . b . 'c . d	
6	'a . b . c . 'd	
8	a . 'b . 'c . 'd	
9	a.'b.'c.d	
12	a . b . 'c . 'd	' negado
13	a.b.'c.d	
14	a.b.c.'d	
14	a.b.c.d	

4-B) S=(a,b,c,d) = sum(m4, m5, m6, m7, m8, m9, m10, m11, m12, m13)

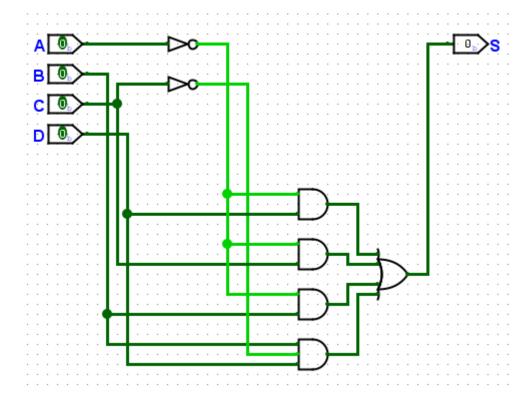
	Minitermo	
4	'a . b . 'c . 'd	
5	'a . b . 'c . d	
6	'a . b . c . 'd	
7	'a.b.c.d	
8	a . 'b . 'c . 'd	
9	a.'b.'c.d	
10	a.'b.c.'d	' negado
11	a.b.'c.d	
12	a . b . 'c . 'd	
13	a.b.'c.d	

4-C) S=(a,b,c,d) = sum(m0, m1, m2, m3, m4, m5, m6, m7, m8, m9, m10, m12, m13, m14, m15)

mx	Index
'A.'B.'C.'D	0
'A.'B.'C.D	1
'A.'B.C.'D	2
'A.'B.C.D	3
'A.B.'C.'D	4
'A.B.'C.D	5
'A.B.C.'D	6
'A.B.C.D	7
A.'B.'C.'D	8
A.'B.'C.D	9
A.'B.C.'D	10
A.B.'C.'D	12
A.B.'C.D	13
A.B.C.'D	14
A.B.C.D	15

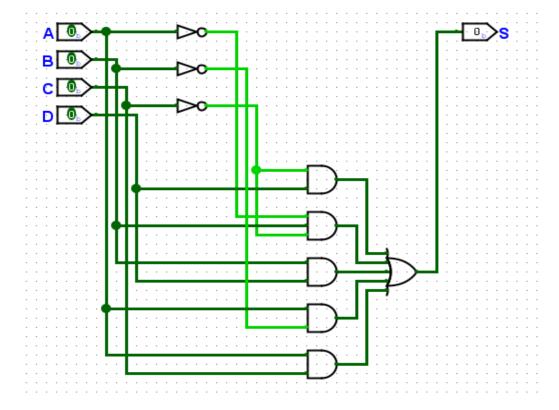
<u>5-A)</u>

	Minitermo	
1	'a . 'b . 'c . d	
2	'a . 'b . c . 'd	
3	'a . 'b . c . d	
4	'a . b . 'c . 'd	
5	'a . b . 'c . d	
6	'a . b . c . 'd	
7	'a.b.c.d	' negado
13	'a . 'b . c . 'd	



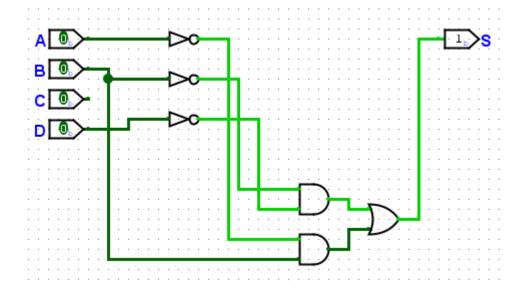
<u>5-B)</u>

	maxtermo
0	a + b + c + d
2	a .+ b + 'c + d
3	a + b + 'c + 'd
6	a + 'b + 'c + d
12	'a + 'b + c + d



<u>5-C)</u>

	Minitermo	
0	'a . 'b . 'c . 'd	
2	'a . 'b . c . 'd	
4	'a . b . 'c . 'd	
5	'a . b . 'c . d	
6	'a . b . c . 'd	
7	'a.b.c.d	
8	a . 'b . 'c . 'd	
10	a.'b.c. ' d	



<u>6-A)</u>

a	b	f	g
0	0	0	0
0	1	1	1
1	0	1	0
1	1	0	0

<u>6-B)</u>

a	b	С	x
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0_	0
1	1	1	1