

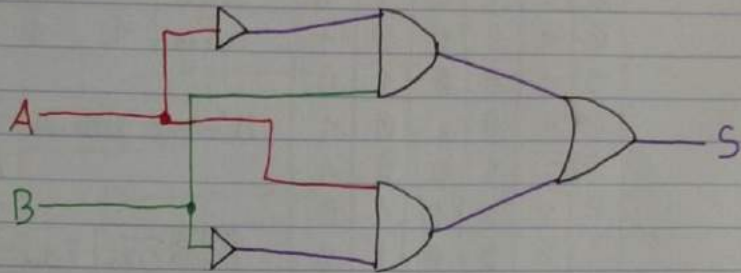
Nome: Rafael Natal

A)

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

	\bar{a}_0	b_1
\bar{a}_0	0	1
a_1	1	0

Mínima forma: $a \cdot \bar{b} + \bar{a} \cdot b$

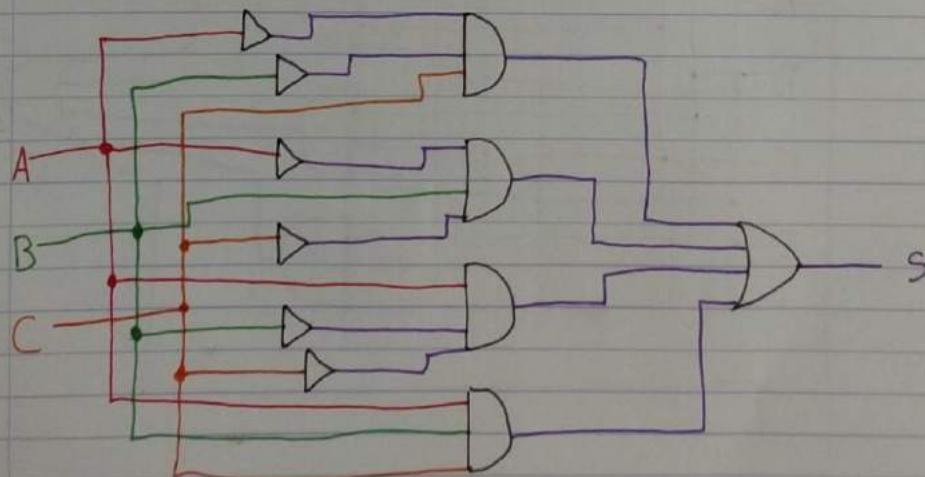


B)

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

	\bar{a}_0	\bar{b}_1	c_{11}	$b\bar{c}_{10}$
\bar{a}_0	0	1	0	1
a_1	1	0	1	0

Mínima forma: $a \cdot \bar{b} \cdot c + \bar{a} \cdot \bar{b} \cdot c + a \cdot b \cdot c + \bar{a} \cdot b \cdot \bar{c}$



c)

A	B	C	D	S1	S2		$\bar{c}\bar{d}_{00}$	$\bar{c}d_{01}$	cd_{11}	$c\bar{d}_{10}$
0	0	0	0	0	0	$\bar{a}\bar{b}_{00}$	0	1	0	1
0	0	0	1	1	0	$\bar{a}\bar{b}_{01}$	1	0	1	0
0	0	1	0	1	0	$\bar{a}b_{11}$	1	1	1	1
0	0	1	1	0	1	$\bar{a}b_{10}$	1	1	1	1
0	1	0	0	1	0					
0	1	0	1	0	1					
0	1	1	0	0	1					
0	1	1	1	1	0					
1	0	0	0	1	0					
1	0	0	1	1	1					
1	0	1	0	1	1					
1	0	1	1	1	0					
1	1	0	0	1	1					
1	1	0	1	1	0					
1	1	1	0	1	0					
1	1	1	1	1	0					

S1

Mínima forma: $\bar{b}\bar{c}d + \bar{b}c\bar{d} + b\bar{c}d + b\bar{c}\bar{d} + a$

	$\bar{c}\bar{d}_{00}$	$\bar{c}d_{01}$	cd_{11}	$c\bar{d}_{10}$
$\bar{a}b_{00}$	0	0	1	0
$\bar{a}b_{01}$	0	1	0	1
$\bar{a}b_{11}$	1	0	0	0
$\bar{a}b_{10}$	0	1	0	1

S2

Mínima forma: $\bar{a}b\bar{c}d + \bar{a}b\bar{c}\bar{d} + \bar{a}b\bar{c}d + \bar{a}b\bar{c}\bar{d} + \bar{a}b\bar{c}d + \bar{a}b\bar{c}\bar{d}$

