

Prática 03 - Marlon Duarte 493408

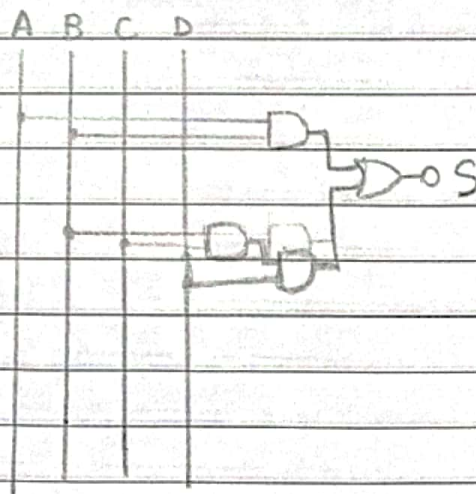
- Problema 01
- Já passa das cinco horas = A
 - Todas as máquinas estão desligadas = B
 - É sexta-feira = C
 - Produção do dia foi atingida = D
 - Tocar a Sirene = S

1. A B C D S

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

AB \ CD	00	01	11	10
00				
01			1	
11	1	1	1	1
10				

AB + BCD



Problema 02

x_1	x_2	x_3	E_1	$x_1 \backslash x_3$	00	01	11	10
0	0	0	0	00		1	1	1
0	0	1	1	01	1		1	
0	1	0	1	10				
0	1	1	1	11				
1	0	0	0					
1	0	1	1					
1	1	0	1					
1	1	1	0					

$\neg x_1 + \neg x_2 + \neg x_3 + x_2$

$\neg x_1 \cdot x_3 + \neg x_1 \cdot x_2 + \neg x_2 \cdot x_3 + x_2$

x_1	x_2	x_3	E_2
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	1
1	1	0	0
1	1	1	1

$x_1 \cdot \neg x_2 + x_1 \cdot x_3 + \neg x_2 \cdot x_3 + \neg x_1 \cdot x_2 \cdot \neg x_3$

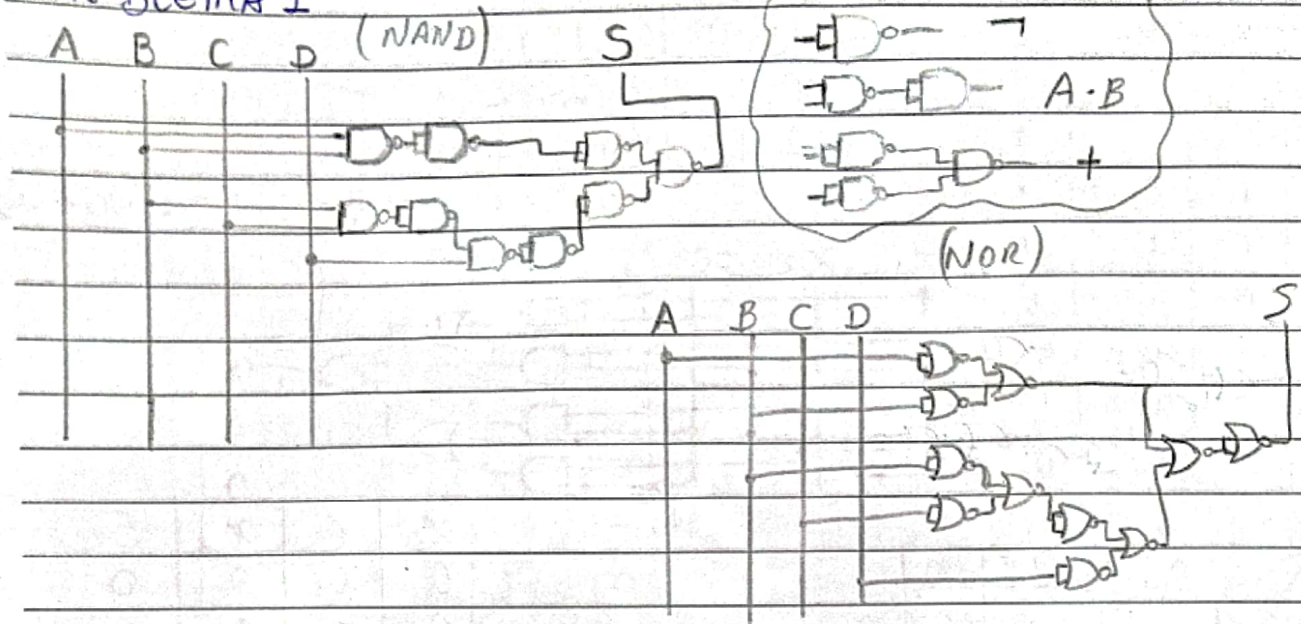
$x_1 \cdot x_2 \cdot x_3$

x_1	x_2	x_3	E_3	$x_1 \backslash x_3$	00	01	11	10
0	0	0	0	00		1	1	
0	0	1	1	01	1			1
0	1	0	0	10				
0	1	1	1	11				
1	0	0	1					
1	0	1	0					
1	1	0	1					
1	1	1	0					

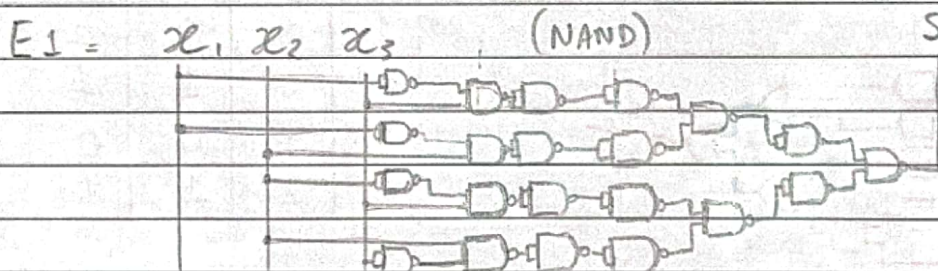
$x_1 \cdot \neg x_3 + \neg x_1 \cdot x_3$

$x_1 \cdot x_2 \cdot x_3$

PROBLEMA 1



Problema 2



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$$E_2 = x_1 x_2 x_3$$

(NAND)

S

x_1 x_2 x_3

(NOR)

S

$E_3 =$

$$E_3 = x_1 x_2 x_3$$

S

S