

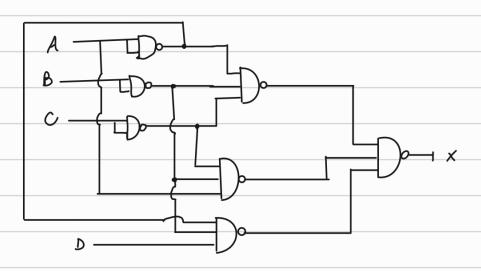
b) 
$$\overline{A} + \overline{B}C$$

$$A(B + \overline{C})$$

$$AB + A\overline{C}$$

c) 
$$\overline{A(B+\overline{c})D}$$
 $\overline{A(Bc)D}$ 
 $\overline{A+B+\overline{c}+\overline{D}}$ 

$$8$$
 -  $\times$  original =  $(\overline{A}.\overline{B}.\overline{C}) + (A.\overline{B}.\overline{C}) + (\overline{A}.\overline{B}.\overline{D})$ 



$$X = (\overline{A.B.C}).(\overline{A.B.C}).(\overline{A.B.D})$$

$$X = (\overline{A+B+C}).(\overline{A+B+C}).(\overline{A+B+D})$$

$$X = \overline{ABC} + \overline{ABC} + \overline{ABD}$$

Tanto a expressão original quanto a expressão usando portas NANDS e simplificando-a com De Mogan são iguais.

9-RPM=0 
$$\rightarrow$$
 V < 4800 RPM b) T

P=0  $\rightarrow$  p < 1,33 N/m<sup>2</sup>

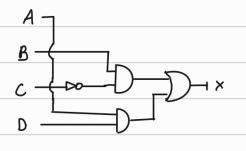
T=0  $\rightarrow$  T < 93,3°C

W=1  $\rightarrow$  liga a leg

 $W = (\overline{R} + P). T$ R T  $\overline{R}$ R+P (R+P).T l ( ı l l l a Q l 

## 11-a) D C B A X

0	0	0	۵	O		Dō	ĪC	X	ΔĒ	
0	σ	0	1	o	BA	o	0	X	o	
o	0	l	0	ı	В́А	0			ſ	
0	0	1	ı	ı	ВА	-	0	X	X	
0	ı	0	0	o	BĀ		0	Х	×	



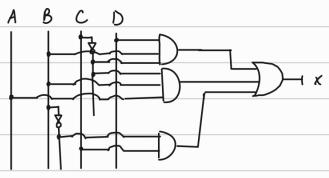
X = DA + CB

l

O

X

b) D		c e	, <i>F</i>	\ X	
0	C	0	۵	4	DC DC DC DC
0	σ	, 0	,	0	BA
o	0	l	٥	0	$\overrightarrow{BA}$ $1 \times X = C\overrightarrow{B} + \overrightarrow{C}BA + D\overrightarrow{C}B$
0	0	ı	ı	ι	BA D X X
0	ı	o	0	ı	BĀ XX
0	ı	О	ı	1	
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l	0	0	0	1	× ×
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	-				



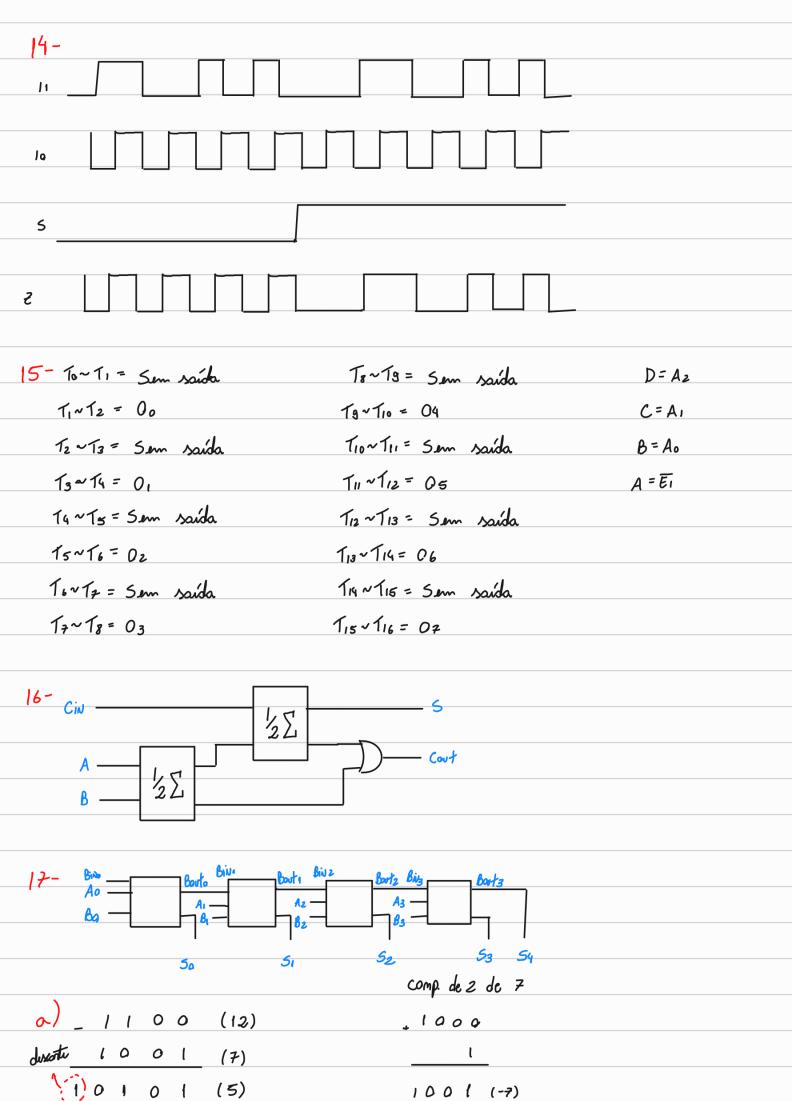
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12- a) 
$$\overline{E}_1 = \overline{E}_2 = \overline{E}_3 = A_1 = A_2 = A_3 = 0$$
  
Portanto,  $O_0 = O_1 = O_2 = O_3 = O_4 = O_5 = O_6 = O_7 = 1$ 

b) 
$$\overline{E}_1 = \overline{E}_2 = A_1 = A_2 = A_3 = 0$$
,  $E_3 = 1$   
Portanto,  $O_0 = O_1 = O_2 = O_3 = O_4 = O_5 = O_6 = O_7 = 1$ 

C) 
$$E_3 = A_1 = A_2 = A_3 = 1$$
,  $\overline{E_1} = \overline{E_2} = 0$   
Portanto,  $O_0 = O_1 = O_2 = O_3 = O_4 = O_5 = O_6 = O_7 = 1$ 

Portanto, 
$$O_0 = O_1 = O_2 = O_3 = O_4 = O_5 = O_6 = O_7 = 1$$



b) 
$$S_0 = B_0 \oplus A_0 \oplus B_{iN_0} = 1$$
 $S_1 = B_1 \oplus A_1 \oplus B_{iN_1} = 0$ 
 $S_2 = B_2 \oplus A_2 \oplus B_{iN_2} = 1$ 
 $S_3 = B_3 \oplus A_3 \oplus B_{iN_3} = 0$ 
 $S_4 = B_0 v t_3 = 1$ 
 $B_0 v t_3 = 1$ 
 $B_0 v t_3 = 1$ 

O resultado foi igual.