1 -

31=17

2- numero decimal 128

b) Hexodecimal >> 80

162	767	760
0	8	0

8 C L

2) bore 3 => 11202

3 ⁵	34	3	32	3	3°
0	7	7	Ç	0	2
	81	27	18	0	2

d) bose 5 => 1003

5 ⁴	53	S	s ¹	5°
0	7	0	0	3
	125			_

792

3 = 128

= 128

E) bose 15=3 88

152	151	45°
0	8	8
	790	8

= 128

	Toreto			
	A	B	L	
Miloporelevador	Somb	90ms	90ms	
wuite disital	7 mg	4mh	7ump	

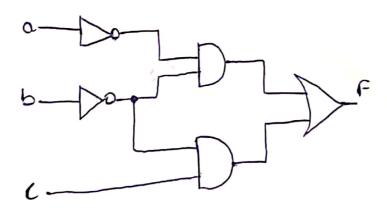
· Tem que ser decrettado lelo memos ho transções los rezundo, ou são Terá uma decretação a cada 0,025 rezundos, são 25 ms

lotifix etimen e robordordem estre oferot co romaisitros.

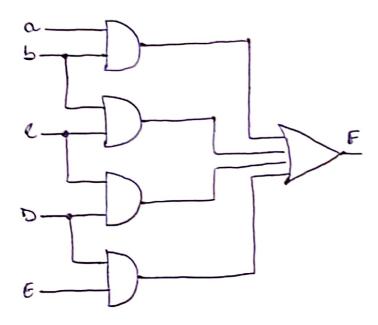
al elobitroup amema a reuper apertidole de W

Desa Forma la Tem duos holuções Possiviss:

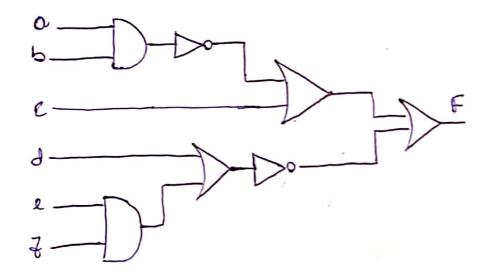
12 A & B Como Circuitos digitais, e c mo microbocerodor 32 A & C Como Circuitos digitais, e O mo microprocerodor



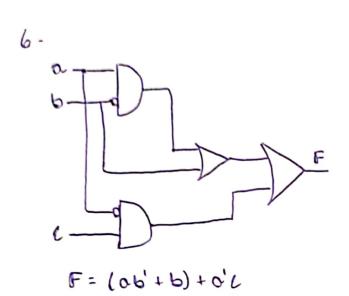
b) F= ab+ bc+ ed+ de



() F= ((06)' + 1) + (8+27)'



 $\Rightarrow F' = o' + c' D + D' B' (Liv do obverção)$ $\Rightarrow F' = o' + o'b' + o'd + c'o' + c'b' + c'd + d'o' + d'b' + 0 (ProP. Complementa)$ $\Rightarrow F' = o' + o'b' + o'd + c'o' + c'b' + c'd + d'o' + d'b' + 0 (ProP. Complementa)$ $\Rightarrow F' = o' + c'D + D' B' (Liv do obverção)$



$m\mathcal{F}$	Pit	5			out Pites
0	b	e	ab' +b	O'L	F
0	O	0	0	0	0
0	0	7	0	7	7
0	7	0	7	0	7
0	4	7	7	7	7
7	0	0	7	0	7
4	0	1	7	0	7
7	7	0	7	0	7
7	1	7	.7	0	7

7 - Converter em tobelos verdades

a) Fla,b,c) = 0'+ be'

b)	F (0,6	(1)	=	(ab)'	+	0-61+	66
------------	-----	-----	-----	---	-------	---	-------	----

	-		1
0	6	L	F
0	0	0	7
0	0	1	7
O	1	0	7
.0	1	7	7
1	0	0	0
2	0	7	0
2	1	0	7
1	2	1	0

~	b	L	F
0	0	0	7
	0	7	7
0	1	0	7
0	2	٨	7
2	0	0	7
1	0	1	7
2	1	0	0
	1	7	7

7- () F(0,6,6) = 06+06+066+6

0	6	2	F
0	0	0	λ,
0	0	Y	Ò
0	4	0	7
0		7	0
4	0	0	7
7	0	7	7
7	7	0	7
4	7	7	7

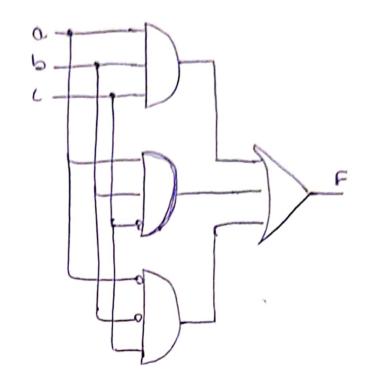
-0
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
65
\$ / 0 0
A / O A

d) F(0,b, (,d) = 0'bc+d'

0	6	c	9	0=
0	0	O	0	7
0	0	0	4	,
0	0	7	0	2
0	0	7	7	O
0	7	0	0	7
0	7	0	7	0
0	`	λ	0	7
0	$\tilde{\mathbf{Z}}$	7	X	7
0	•	0	0	2
7	O	5	,	0
1	0	0	λ.	
7	0	7	0	7
7	0	7	000000000000000000000000000000000000000	0
4	7	0	0	7
1	\	9	2	0
7			•	
1	7	7	Ö	7
000000000000000000000000000000000000000	777700007777	× 7 00 7 7 00 7 700 7 700 0	1	P1010 10110 1010 10

8-	0	6	e	F	
	0	0	0	0	
	0	0	7	7	ø
	0	7	0	0	
	0	A	7	0	
	7	0	0	0	
	1	0	A	0	
	1	2	0	٨	4
	1	7	1	٨	9
				,	

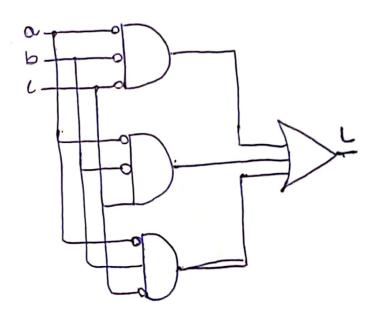
F = 0'b'c + 0be' + 0bc

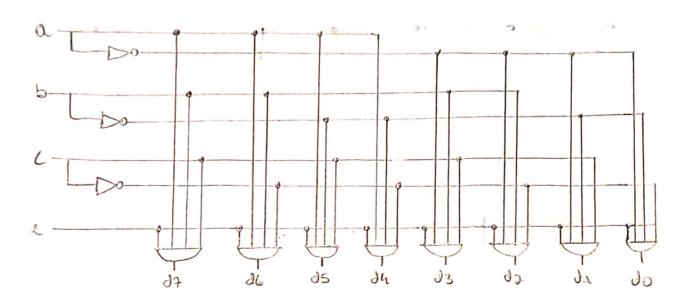


9-

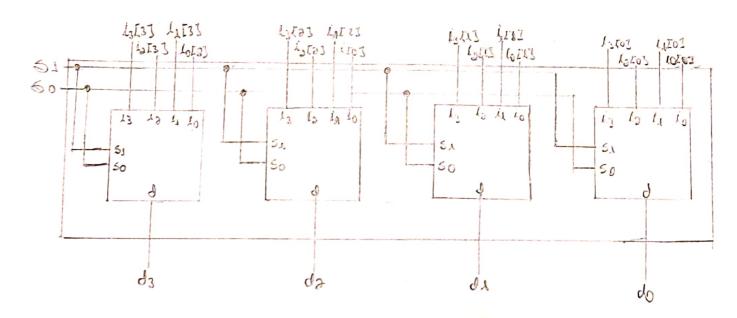
In	Put	outputs		
0.	Ь	e.	L	
0	0	0	7	-
0	0	7	7	0
0	2	0	7	•
0	٨	1	0	
7	0	0	0	
2	0	7	0	
7	7	0	0	
2	2	1	0	

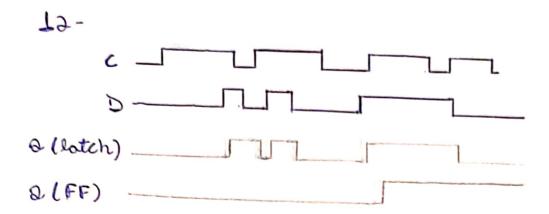
€ 6= 0'b'C+ 0'b'C+ 0'bC'



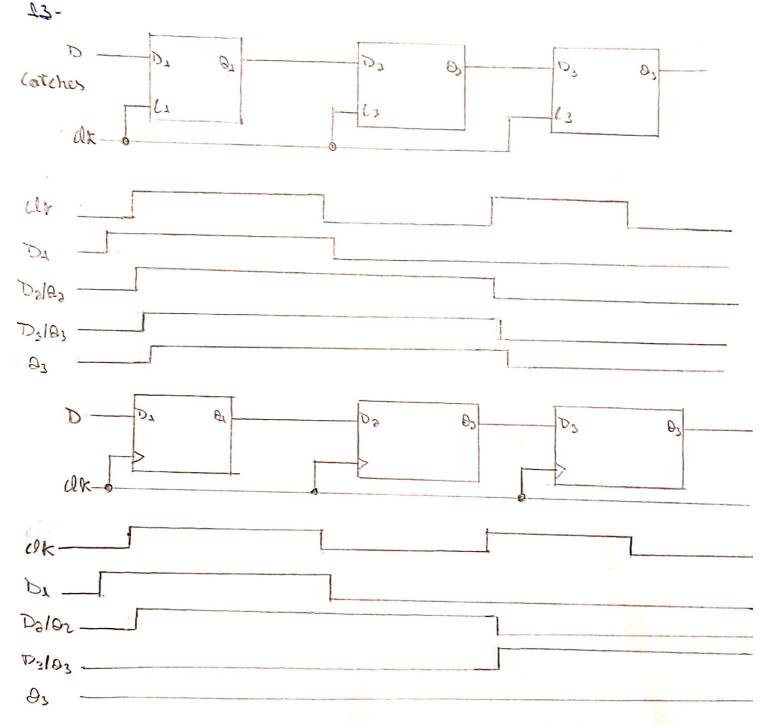


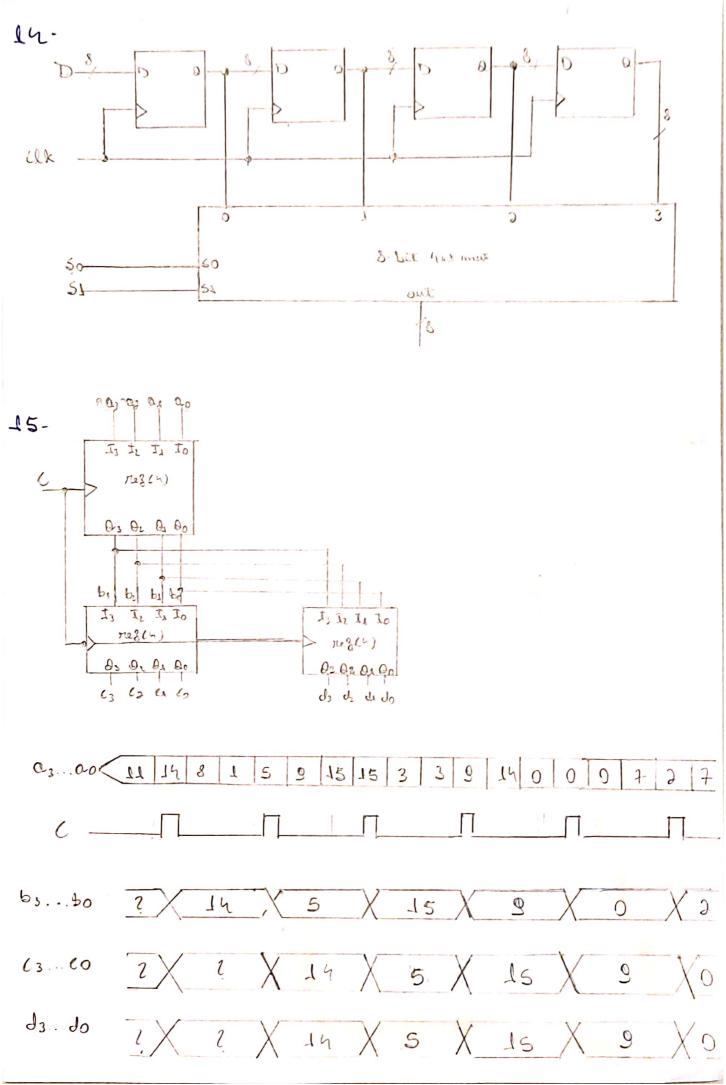
11-

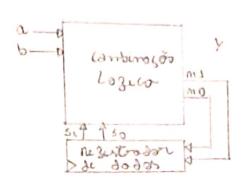




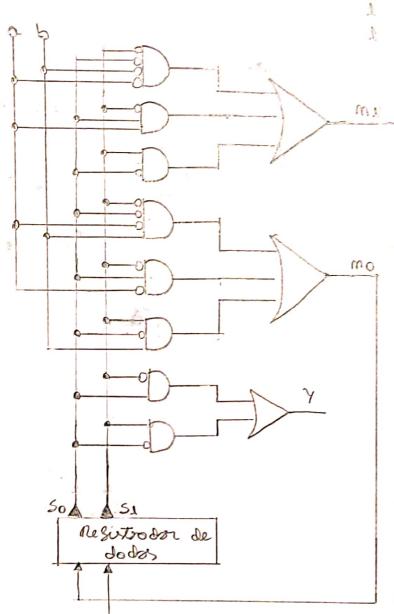
e latch tem a estado alterado durante o clack ativo, fá e flip-flop ró tem seu estado alterado ateras mos bardos do elacko ambos cantendo um atraso.







-	InPu	its		out Rute				
51	60	0-	6	ma	mo	Y		
0	0	0	0	7	0	0		
0	0	9	7	0	7	0		
0	0	7	0	0	0	0		
0	0	7	1	0	0	0		
0	7	9	0	9	7	7		
0	7	0	A	0	7	λ		
0	1	1	0	7	0	1		
0	7	1	7	1	0	7		
1	0	0	0	1	0	1		
1	0	0	1	1	1	7		
7	0	1	0	7	0	7		
7	0	1	7	1	7	1		
7	7	0	0	6)	0	0		
7	7	0	N.	9	0	٥		
1	1	1	0	0	Ð	0		
1	1	7	1.	0	O	0		



Equa goes: m2 = (51'500 + 5250'0)'
m0 = 52'50'0

Y = 5,50

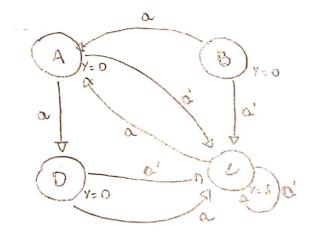
Codiquilogões de estado: A:00

B: 07

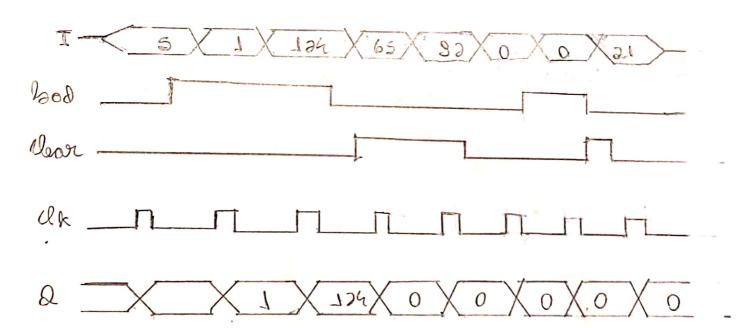
C: 20

D 17

Z	nPeit	5	outputs					
61	50	0	wr	mo	4			
0	0	0	1	0	0			
0	O	7	7	7	0			
0	7	0	7	0	0			
0	7	1	0	0	0			
1	0	O	1	0	7			
1	0	7	0	0	7			
7	1.	7	7	0				



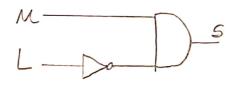
19-



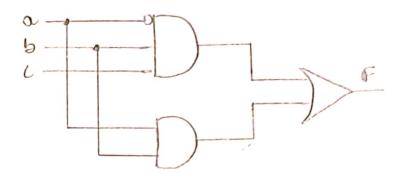
2- 85 transitares são do tupo puos, ou seta, so conduz quando o volor logico é o. sera farma para que o transitar superior e inferior conduzam, x e y tem que assuarior o volor logico o. esse o circuito sá : conduz quando x e y Possuem volor logico o.

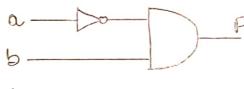
- 3- M indila uma movimento
 - · L indica se há luz do dio
 - · A sirene deve redeber I para disporor a rom do alarme.
 - À sirene distara fuendo houver movimento e mão sur

5= ML

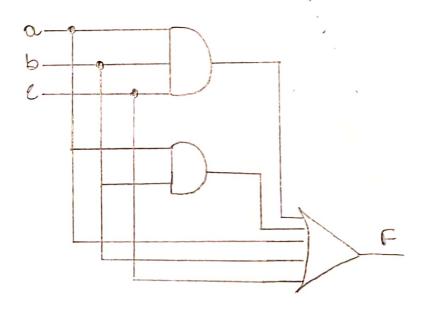


4a) Flanbic) = o'bc + ab

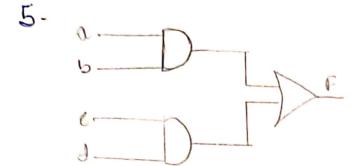


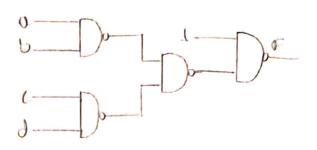


6



0





Fo(0,6,23)=(1((06)'(2))')')

. Simplificando F2(0,b,C,d) = (1((0b)'(2d)')')'

1'+((AB)'(cd)')')' Teorema de Morgon

1'+(AB)'((d')) Lei do involuçõo

1'+(A'+B')(('+b')) Teorema de Morgon

0+(A'+B')(('+b')) \(\delta\) (('+b')) (ei do identido

0+(A'+B')(C'+D') \Rightarrow (A'+B')(C'+D') lei do identedode (A'C'+A'D'+B'C'+B'B') Destributado

F2(0,6,4,8) = 06 +28 ; F0(0,6,4,8). (((06)'((0)')')'
. Oh does concentres não 5ão equivolantes

	to	Reite	of the same of the	AUTPEIL		-1	inRi	ta		outfuls
0	6	C	B	F						
00000	0 0 0	0 7 7 0	7 0 7 0 7	0 7 0 0	-	0 0 0 0	0 0 0 0 1	0 0 0 0 0 0	0 7 0 7	トイントロ
7 7 0 0 0	0 0 7	0 0 7	7 0 7	0 0 7		7 0 0	7 7 0 0 0	7 0 7 7 0 7	7 0 7	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	7 7 7 0	70077	7 0 7	7 7 7		2 1 1 2 1	7 7 7 0	7 0 0 7 7	7 0 7	0000