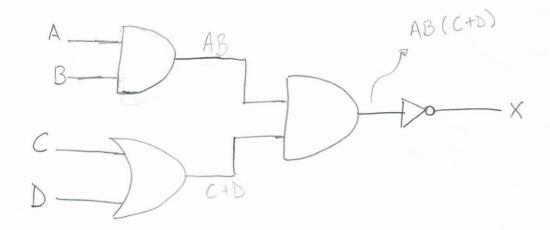
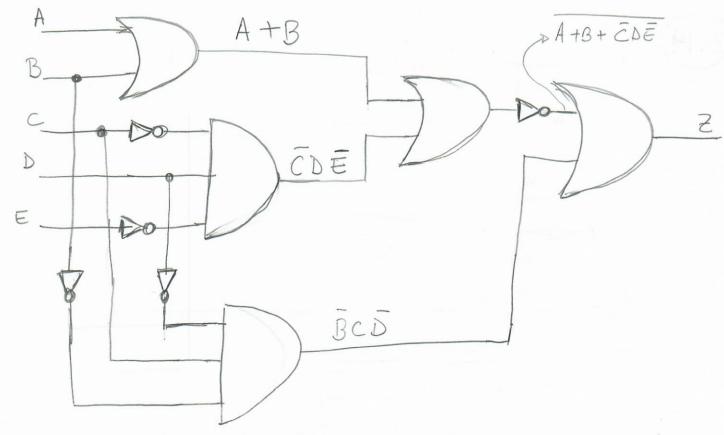
ET46B - SISTEMAS DIGITAIS

CAPITUW 3

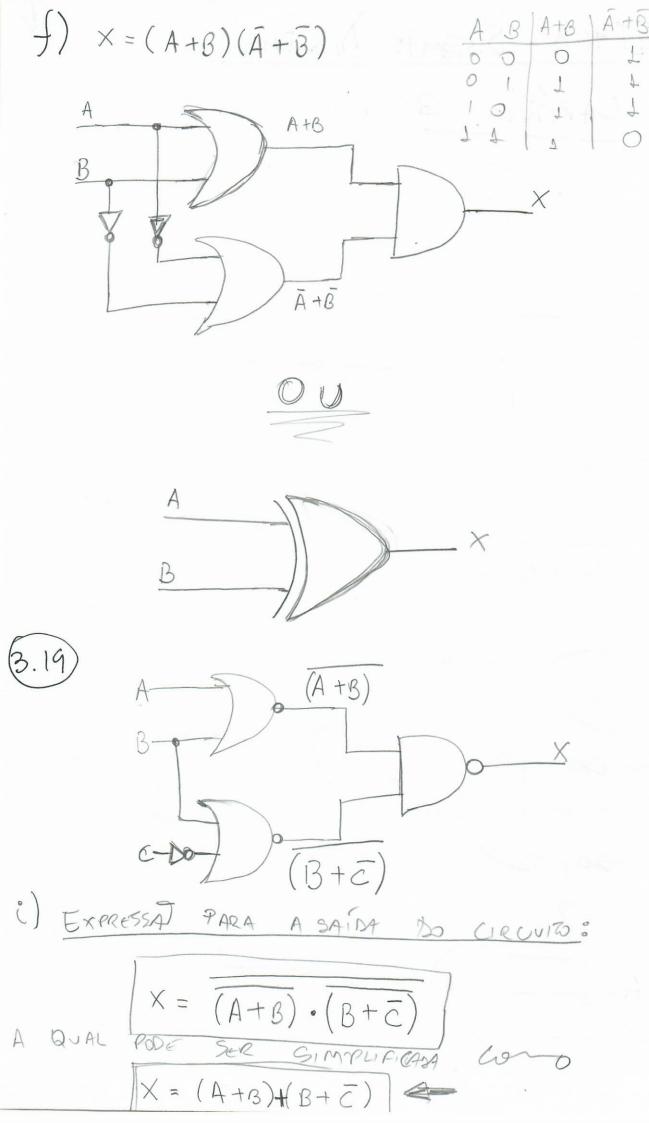
$$(3.16)$$
 a) $x = \overline{AB(C+D)}$



b)
$$z = \overline{A + B + \overline{C}D\overline{E} + \overline{B}C\overline{D}}$$



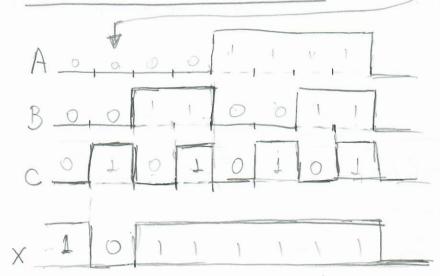
2/0



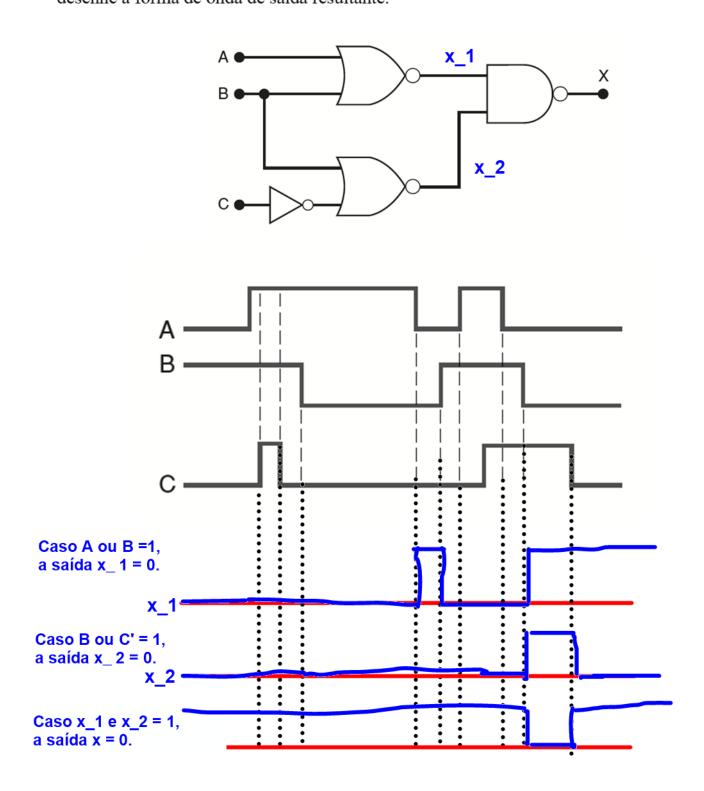
(i)	TABELA	- VERDADE:	,
,			

A B	C	A+B	B+C	X
0 0	0	0	7	1
0 0	7	0	0	0
0 1	0	7	7	1
0 1	7	1	1	7
1 0	0	1	L	1
10	1	1	0	1
1 1	\bigcirc	1	1	1
1 1	1	1	1	1

(ii) DIAGRAMA DE SIMAIS!



C 3.19* Escreva a expressão para a saída do circuito da Figura 3.55 e use-a para determinar a tabela-verdade completa. Em seguida, aplique as formas de onda mostradas na Figura 3.54 às entradas do circuito e desenhe a forma de onda de saída resultante.



(i)
$$\overline{X} + Xy = \overline{Y} + y$$

$$(3.24)$$
 $(N + P)$ $(N + P)$ $(N + P)$

$$= (MM + MP + NM + NP)(N + P)$$

$$(3.26c)\overline{ABCD} = (\overline{AB}) + \overline{CD}$$

$$\frac{\partial}{\partial A(B+\overline{C})D} = \overline{A} + \overline{(B+\overline{C})} + \overline{D}$$

$$= \overline{A} + B + \overline{C} + \overline{D}$$

$$(M+\overline{N})(\overline{M}+N) = (\overline{M}+\overline{N}) + (\overline{M}+N)$$

$$= \overline{M}.\overline{N} + \overline{M}.\overline{N}$$

$$= \overline{M}.N + M.\overline{N}$$

(3.29)-CONVERTA P/ USAR APENAS RORTAS WOR. - OBTENHA A EXPRESSÃD O CKT RESULTANTE - SINPLIFIDE e Confre Gon O CKT ORIGIME A+B A (KT ORIGINAL: X = (A+3) B.C

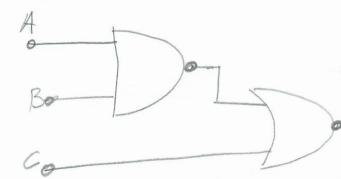
= CKT com NOR: X = (AB+BC)

- CKT ORIGINAL:

$$= \overline{(AB. BC)}$$

$$X = A.B.\overline{c}$$

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



No

