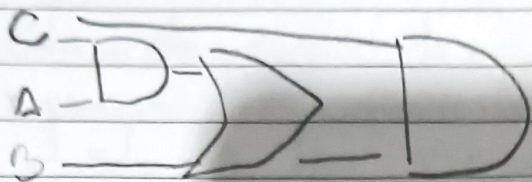
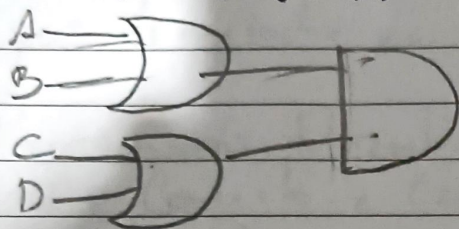


1) Implemente os circuitos lógicos das funções a seguir:

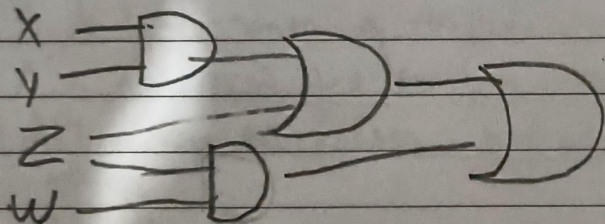
a) $S = (A.C + B).C$



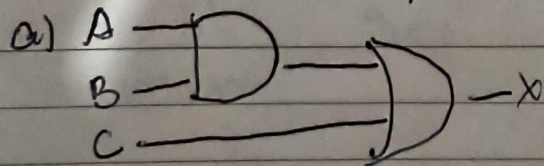
b) $S = (A+B).(C+D)$



c) $S = X.Y + Z + Z.W$

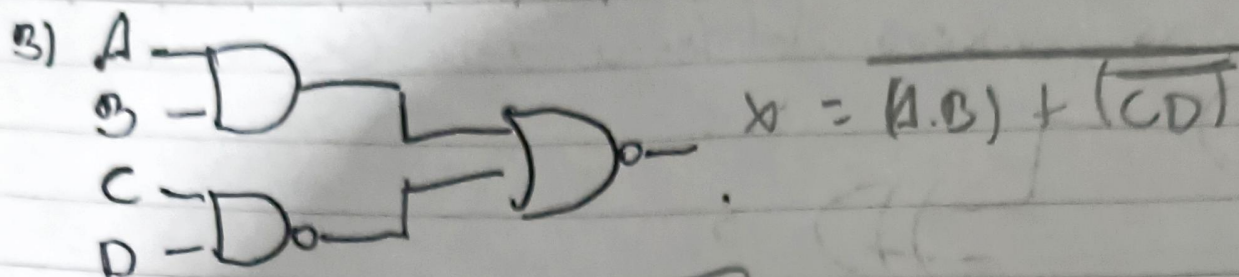


2) Determine a equação e tabela verdade dos circuitos lógicos



$X = (A.B) + C$

A	B	AB	C	X
0	0	0	0	0
0	0	0	1	1
0	1	0	0	0
0	1	0	1	1
1	0	0	0	0
1	0	0	1	1
1	1	1	0	1



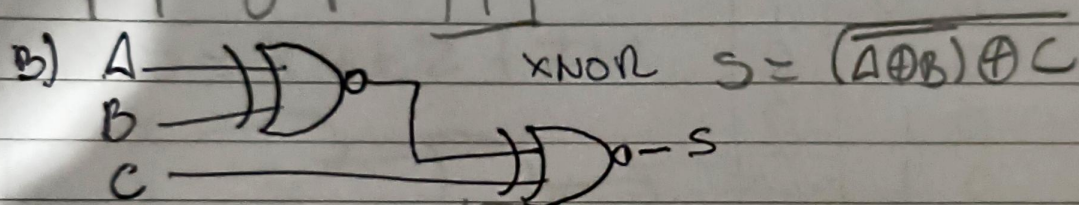
A	B	C	D	AB	CD	X
0	0	0	0	0	0	0
0	0	0	1	0	0	0
0	0	1	0	0	0	0
0	0	1	1	0	1	1
0	1	0	0	0	0	0
0	1	0	1	0	0	0
0	1	1	0	0	1	1
0	1	1	1	0	1	1
1	0	0	0	0	0	0
1	0	0	1	0	0	0
1	0	1	0	0	0	0
1	0	1	1	0	1	1
1	1	0	0	1	0	1
1	1	0	1	1	0	1
1	1	1	0	1	0	1
1	1	1	1	1	1	1

3) Determine as equações e tabelas verdadeiras. Comporte-se como um profissional.



$$S = (A \oplus B) \oplus C / C \oplus (A \oplus B)$$

A	B	$A \oplus B$	C	S
0	0	0	0	0
0	0	0	1	1
0	1	1	0	1
0	1	1	1	0
1	0	1	0	1
1	0	1	1	0
1	1	0	0	0
1	1	0	1	1



A	B	$\overline{A \oplus B}$	C	S
0	0	1	0	0
0	0	1	1	1
0	1	0	0	1
0	1	0	1	0
1	0	0	0	1
1	0	0	1	0
1	1	1	0	0
1	1	1	1	1

As equações são equivalentes em seus valores