

Todas as tabelas verdade

a) $x = A'B + C$

A	B	C	x
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	0
1	1	1	1

b) $x = (A + B)(B + C')$

A	B	C	x
0	0	0	0
0	0	1	0
0	1	0	1
0	1	1	1
1	0	0	1
1	0	1	0
1	1	0	1
1	1	1	1

c) $x = (AB)'(C + D)$

A	B	C	D	x
0	0	0	0	0
0	0	0	1	1
0	0	1	0	1
0	0	1	1	1
0	1	0	0	0
0	1	0	1	1
0	1	1	0	1
0	1	1	1	1
1	0	0	0	0
1	0	0	1	1
1	0	1	0	1
1	0	1	1	1
1	1	0	0	0
1	1	0	1	0
1	1	1	0	0
1	1	1	1	0

d) $x = A \oplus B \oplus C$

$$y = AB + B'C + AC$$

A	B	C		x	y
0	0	0		0	0
0	0	1		1	1
0	1	0		1	0
0	1	1		0	0
1	0	0		1	0
1	0	1		0	1
1	1	0		0	1
1	1	1		1	1

2 -

	A	B	C				X = A'C + B'C
0	0	0	1	1	1		0
0	0	1	1	1	1		1
0	1	0	1	0	1		0
0	1	1	1	0	1		1
1	0	0	0	1	1		0
1	0	1	0	1	1		1
1	1	0	0	0	0		0
1	1	1	0	0	0		0

expressão final: $X = A'C + B'C$

Componentes:

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