



Lista de Exercícios –

Simplificação de circuitos: Mapas de *Karnaugh*

1) Utilize os Mapas de Karnaugh para simplificar as funções lógicas abaixo.

a)

A	B	Y
0	0	1
0	1	X
1	0	0
1	1	1

b)

A	B	C	Y
0	0	0	0
0	0	1	1
0	1	0	0
0	1	1	1
1	0	0	X
1	0	1	1
1	1	0	0
1	1	1	X

c)

A	B	C	Y
0	0	0	1
0	0	1	1
0	1	0	0
0	1	1	X
1	0	0	X
1	0	1	1
1	1	0	0
1	1	1	0

d)

A	B	C	D	Y
0	0	0	0	0
0	0	0	1	0
0	0	1	0	0
0	0	1	1	1
0	1	0	0	1
0	1	0	1	X
0	1	1	0	1
0	1	1	1	1
1	0	0	0	X
1	0	0	1	0
1	0	1	0	0
1	0	1	1	0
1	1	0	0	X
1	1	0	1	0
1	1	1	0	0
1	1	1	1	0

e)

A	B	C	D	Y
0	0	0	0	1
0	0	0	1	0
0	0	1	0	0
0	0	1	1	1
0	1	0	0	1
0	1	0	1	X
0	1	1	0	1
0	1	1	1	0
1	0	0	0	0
1	0	0	1	1
1	0	1	0	0
1	0	1	1	0
1	1	0	0	X
1	1	0	1	X
1	1	1	0	X
1	1	1	1	0