

## Exercícios

01. Simplifique as expressões:

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

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

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

$$S = \left[ \overline{(\overline{A} C)} + B + D \right] + C(\overline{A} C D)$$

02. Simplifique utilizando o mapa de Karnaugh as tabelas a seguir:

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

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

03. Encontre a expressão a partir dos mapas a seguir:

	CD	00	01	11	10
AB	00	1	1	1	1
	01	1	1	0	0
	11	0	0	0	1
	10	0	0	1	1

	CD	00	01	11	10
AB	00	1	1	1	1
	01	1	0	1	1
	11	0	1	1	1
	10	1	1	1	1