



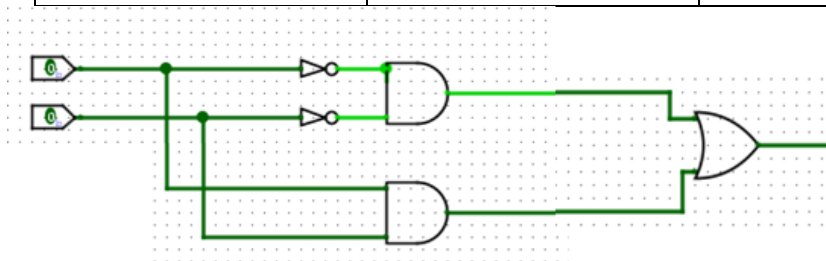
Lista de Exercícios – GABARITO

Soma de Produtos

- 1) Obtenha a expressão em SdP e o circuito lógico correspondente de cada tabela verdade apresentada abaixo.

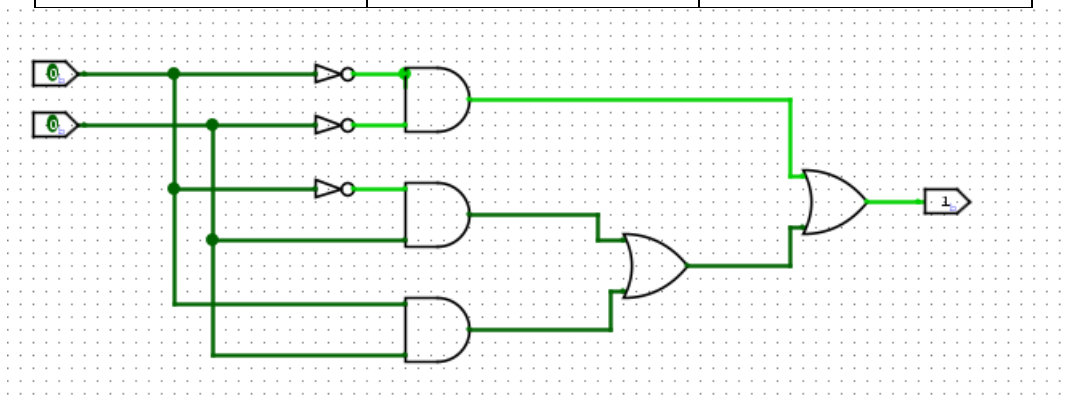
a)

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

$$\overline{A} \cdot \overline{B} + A \cdot B$$


b)

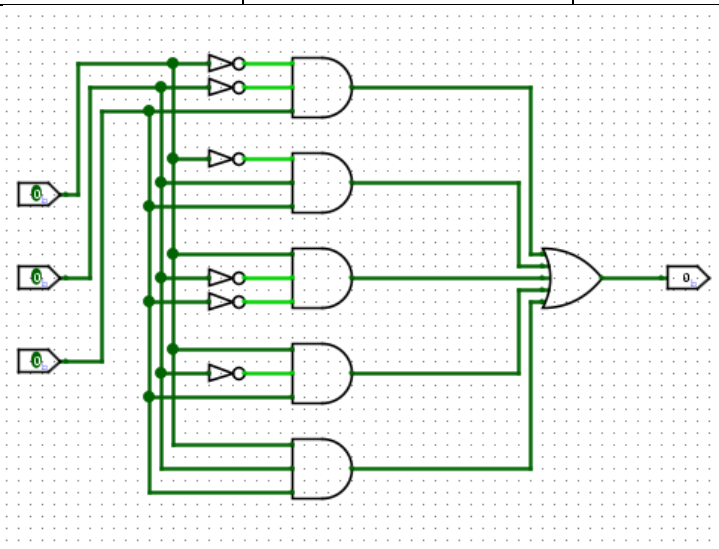
A	B	Y
0	0	1
0	1	1
1	0	0
1	1	1

$$\overline{A} \cdot \overline{B} + \overline{A} \cdot B + A \cdot B$$


c) $\overline{A} \cdot \overline{B} \cdot C + \overline{A} \cdot B \cdot C + A \cdot \overline{B} \cdot \overline{C} + A \cdot \overline{B} \cdot C + A \cdot B \cdot C$

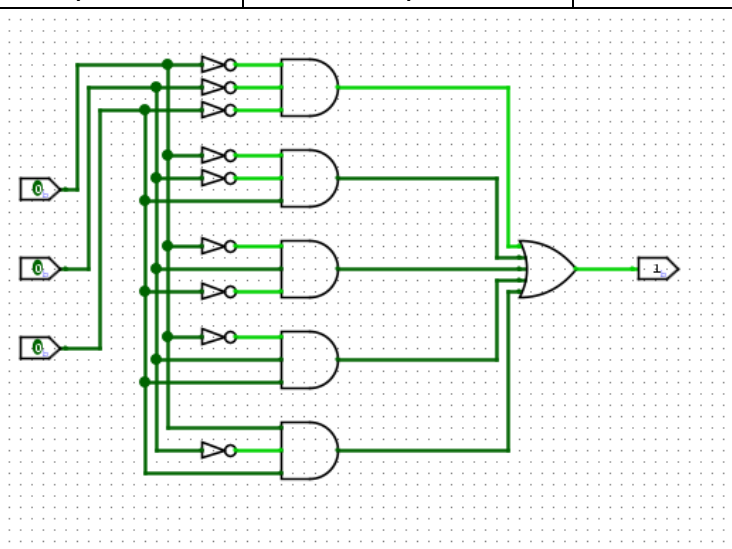
A	B	C	Y
0	0	0	0
0	0	1	1
0	1	0	0

0	1	1	1
1	0	0	1
1	0	1	1
1	1	0	0
1	1	1	1



d) $\bar{A}.\bar{B}.\bar{C} + \bar{A}.\bar{B}.C + \bar{A}.B.\bar{C} + \bar{A}.B.C + A.\bar{B}.C$

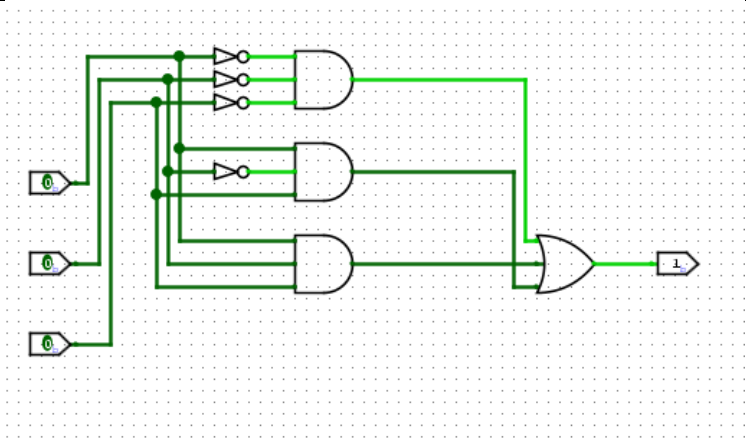
A	B	C	Y
0	0	0	1
0	0	1	1
0	1	0	1
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	0
1	1	1	0



e) $\bar{A}.\bar{B}.\bar{C} + A.\bar{B}.C + A.B.C$

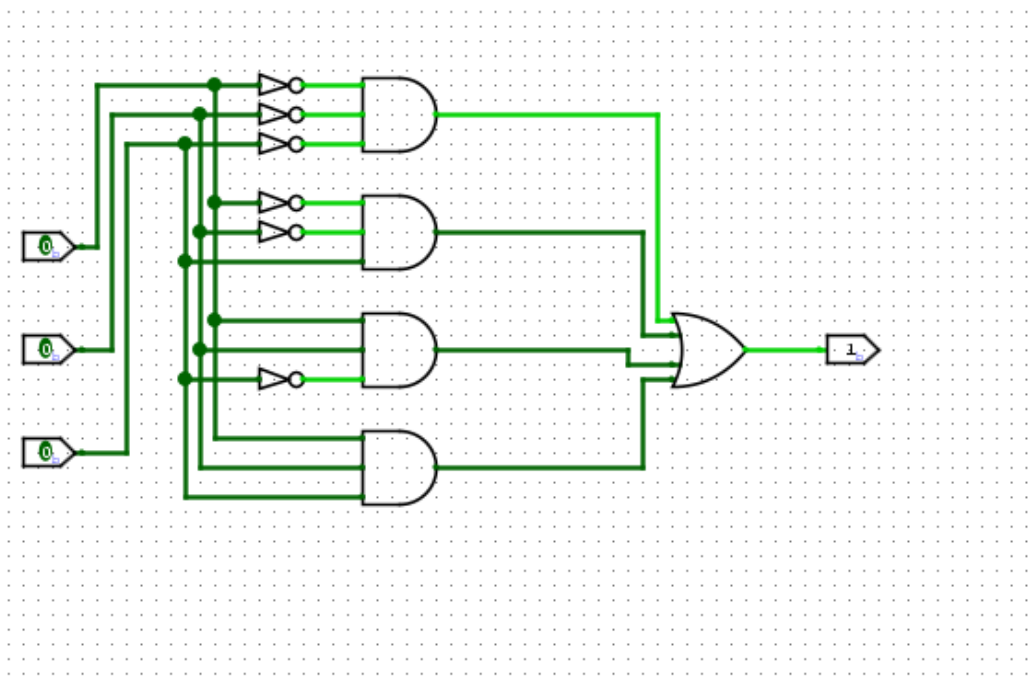
A	B	C	Y
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0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	0
1	0	1	1
1	1	0	0
1	1	1	1



f) $\overline{A}. \overline{B}. \overline{C} + \overline{A}. \overline{B}. C + A. B. \overline{C} + A. B. C$

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



g) $\bar{A}.\bar{B}.C.D + \bar{A}.B.\bar{C}.\bar{D} + \bar{A}.B.C.\bar{D} + \bar{A}.B.C.D + A.\bar{B}.\bar{C}.\bar{D}$

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	0
0	1	1	0	1
0	1	1	1	1
1	0	0	0	1
1	0	0	1	0
1	0	1	0	0
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

