Exercício 5

$$S = (\bar{A} \cdot \bar{B}) \oplus (\bar{C} + D)$$

A	B	C	D	$\bar{A}$	$\bar{B}$	$\bar{C}$	$(\bar{A} \cdot \bar{B})$	$(\bar{C} + D)$	S
0	0	0	0	1	1	1	1	1	0
0	0	0	1	1	1	1	1	1	0
0	0	1	0	1	1	0	1	0	1
0	0	1	1	1	1	0	1	1	0
0	1	0	0	1	0	1	0	1	1
0	1	0	1	1	0	1	0	1	1
0	1	1	0	1	0	0	0	0	0
0	1	1	1	1	0	0	0	1	1
1	0	0	0	0	1	1	0	1	1
1	0	0	1	0	1	1	0	1	1
1	0	1	0	0	1	0	0	0	0
1	0	1	1	0	1	0	0	1	1
1	1	0	0	0	0	1	0	1	1
1	1	0	1	0	0	1	0	1	1
1	1	1	0	0	0	0	0	0	0
1	1	1	1	0	0	0	0	1	1

Exercício 6

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

A	B	C	D	$\bar{C}$	$(A \cdot B)$	$\overline{(C \cdot D)}$	S
0	0	0	0	1	0	1	1
0	0	0	1	1	0	1	1
0	0	1	0	0	0	1	1
0	0	1	1	0	0	0	0
0	1	0	0	1	0	1	1
0	1	0	1	1	0	1	1
0	1	1	0	0	0	1	1
0	1	1	1	0	0	0	0
1	0	0	0	1	0	1	1
1	0	0	1	1	0	1	1
1	0	1	0	0	0	1	1
1	0	1	1	0	0	0	0
1	1	0	0	1	1	1	1
1	1	0	1	1	1	1	1
1	1	1	0	0	1	1	1
1	1	1	1	0	1	0	1
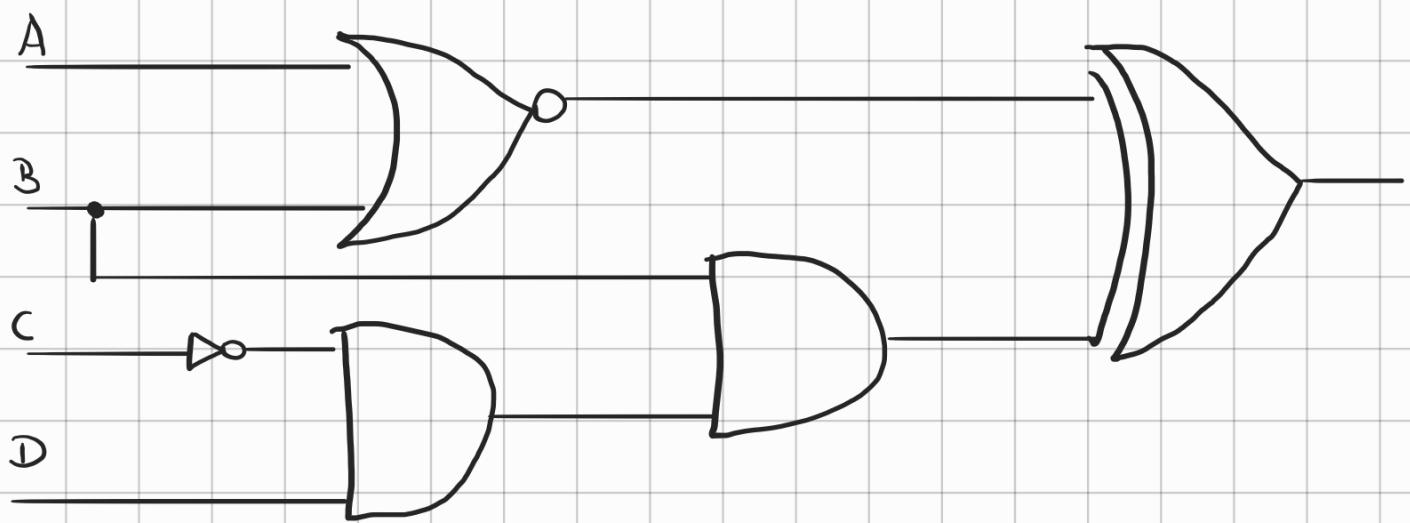
Exercício 7

$$S = (\bar{A} \cdot \bar{B}) \oplus (\bar{C} + \bar{D})$$
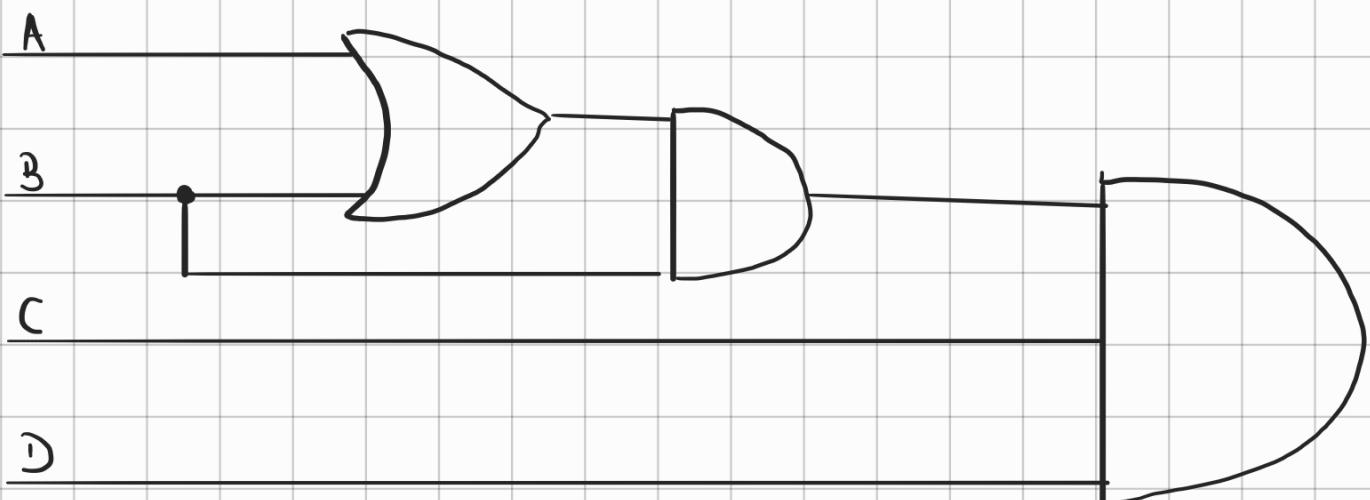
A	B	C	D	Ā	B̄	C̄	D̄	(Ā·B̄)	(C̄+D̄)	S
0	0	0	0	1	1	1	1	1	1	0
0	0	0	1	1	1	1	0	1	1	0
0	0	1	0	1	1	0	1	1	1	0
0	0	1	1	1	1	0	0	1	0	1
0	1	0	0	1	0	1	1	0	1	1
0	1	0	1	1	0	1	0	0	1	1
0	1	1	0	1	0	0	1	0	1	1
0	1	1	1	1	0	0	0	0	0	0
1	0	0	0	0	1	1	1	0	1	1
1	0	0	1	0	1	1	0	0	1	1
1	0	1	0	0	1	0	1	0	1	1
1	0	1	1	0	1	0	0	0	0	0
1	1	0	0	0	0	1	1	0	1	1
1	1	0	1	0	0	1	0	0	1	1
1	1	1	0	0	0	0	1	0	1	1
1	1	1	1	0	0	0	0	0	0	0

Exercício 03

$$\overline{(A + B)} \oplus (\bar{C} \cdot D) \cdot B$$

$$(A + B) \cdot B + C + D$$

Exercício 9