

Meio Somador

A porta lógica XOR só é verdadeira quando o número de verdades for ímpar.

* Soma Binária

$$0 + 0 = 0$$

$$0 + 1 = 1$$

$$1 + 0 = 1$$

$$1 + 1 = 0 \quad \text{com carry 1}$$

* Subtração Binária

$$0 - 0 = 0$$

$$1 - 0 = 1$$

$$1 - 1 = 0$$

$$0 - 1 = 1 \quad \text{com borrow 1}$$

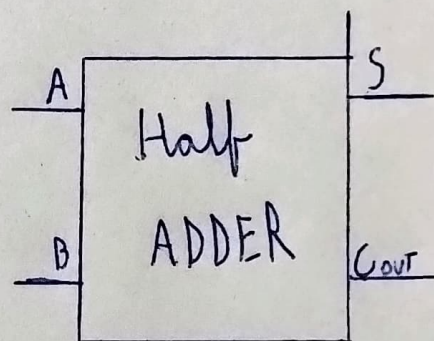
* (Não 1)

→ Carry in

Carry out →

* Tabela Verdade

Operando			
A	B	Sum	Carry out
0	0	0	0
0	1	1	0
1	0	1	0
1	1	0	1
Input		Out put	

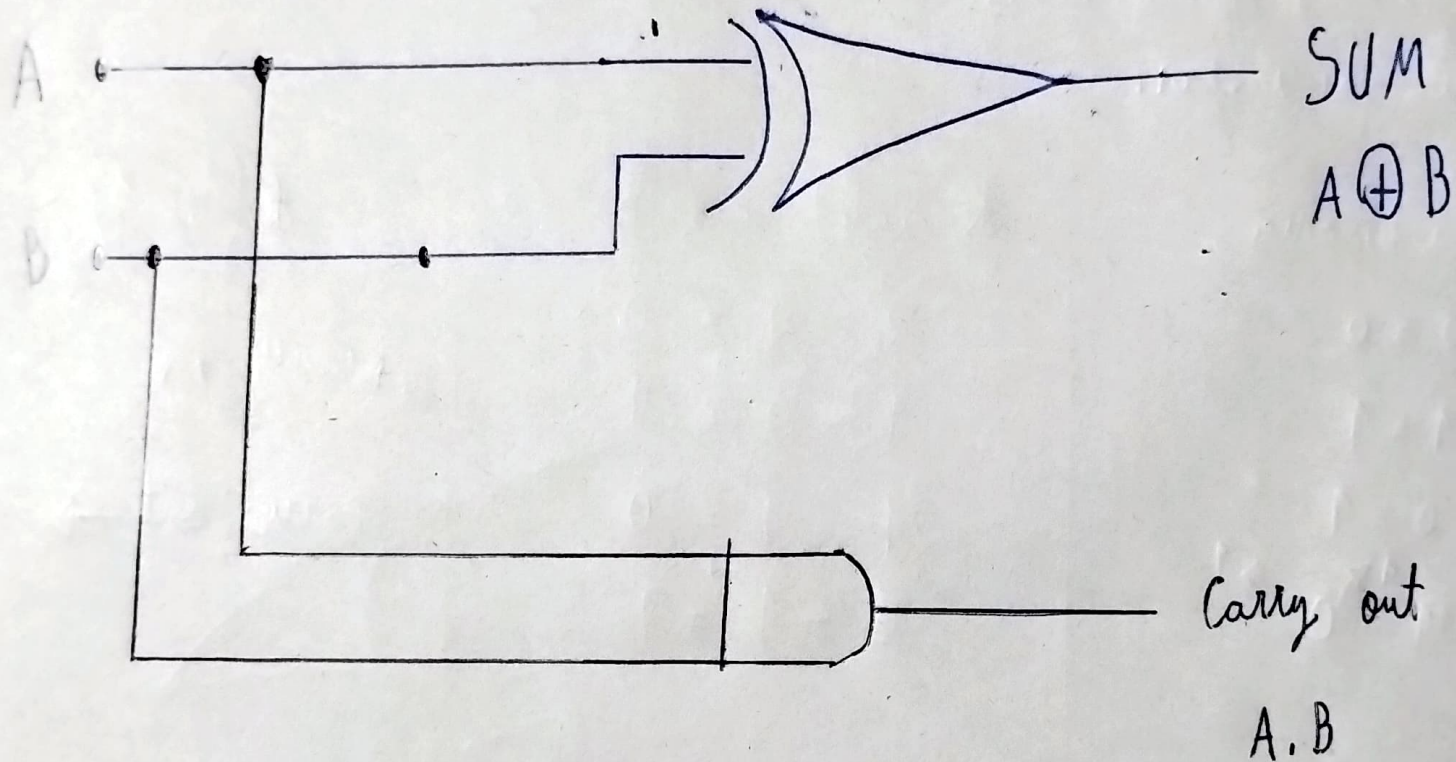


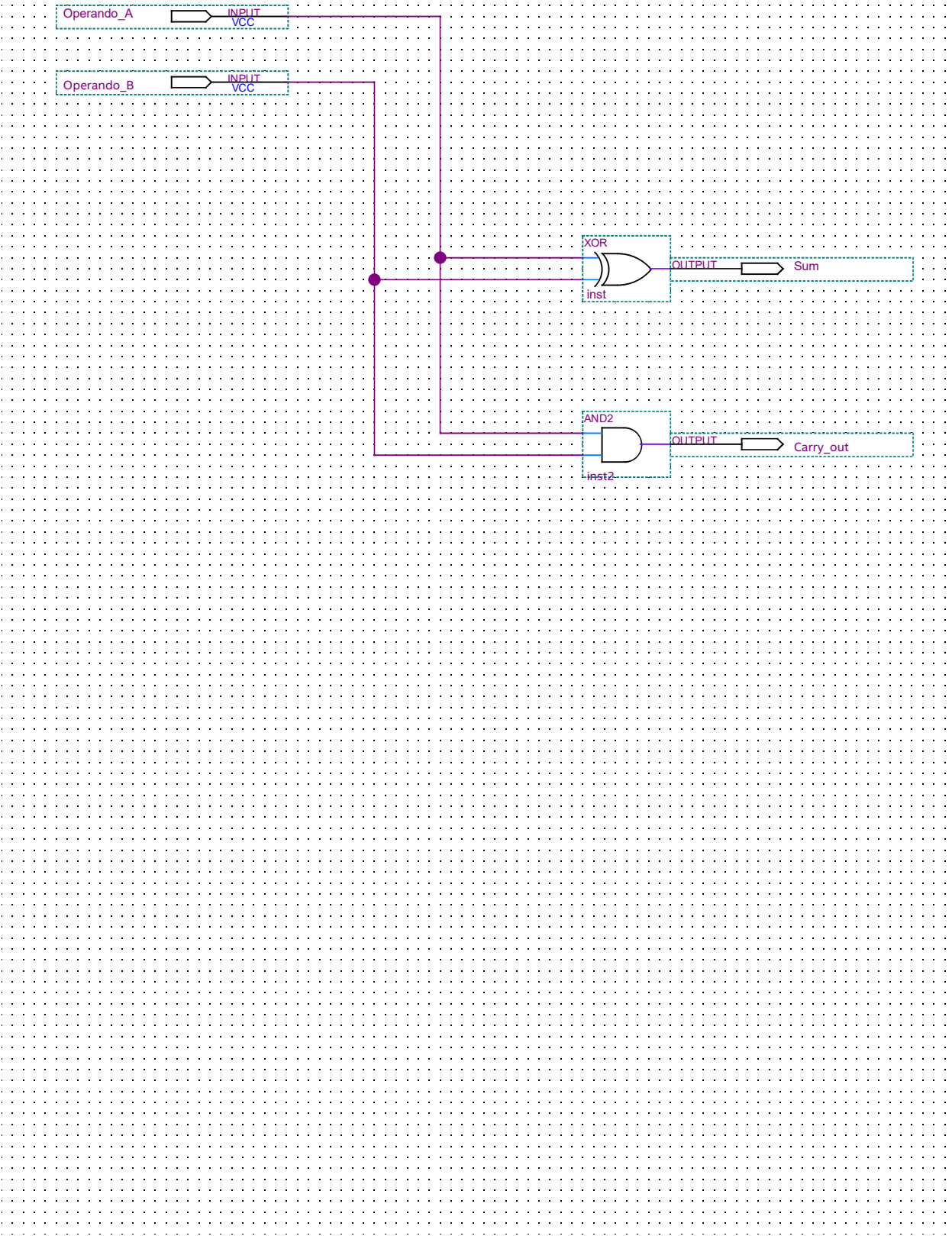
* Mapa de Karnaugh

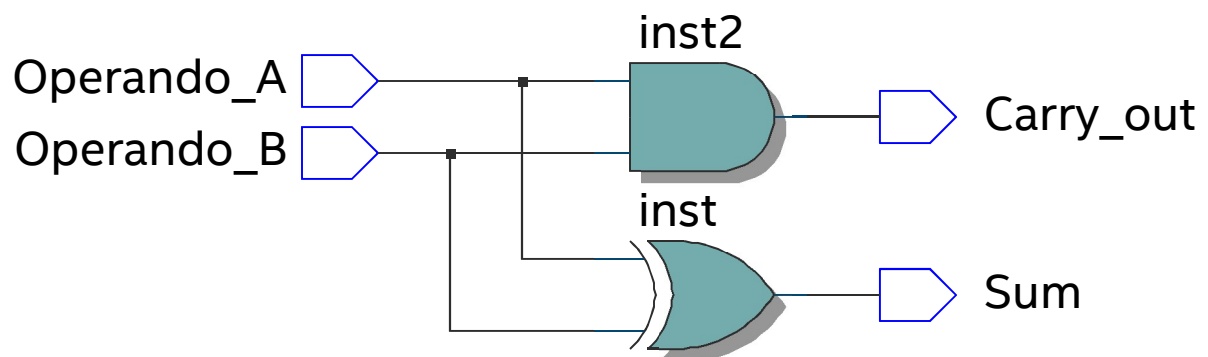
A \ B	0	1	SUM $A'B + AB'$ $A \oplus B$
0		1	
1	1		

A \ B	0	1	Carry out $A \cdot B$
0			
1		1	

Circuito Eletrônico









Master Time Bar: 0 ps Pointer: 925.47 ns Interval: 925.47 ns Start: 0 ps End: 0 ps

