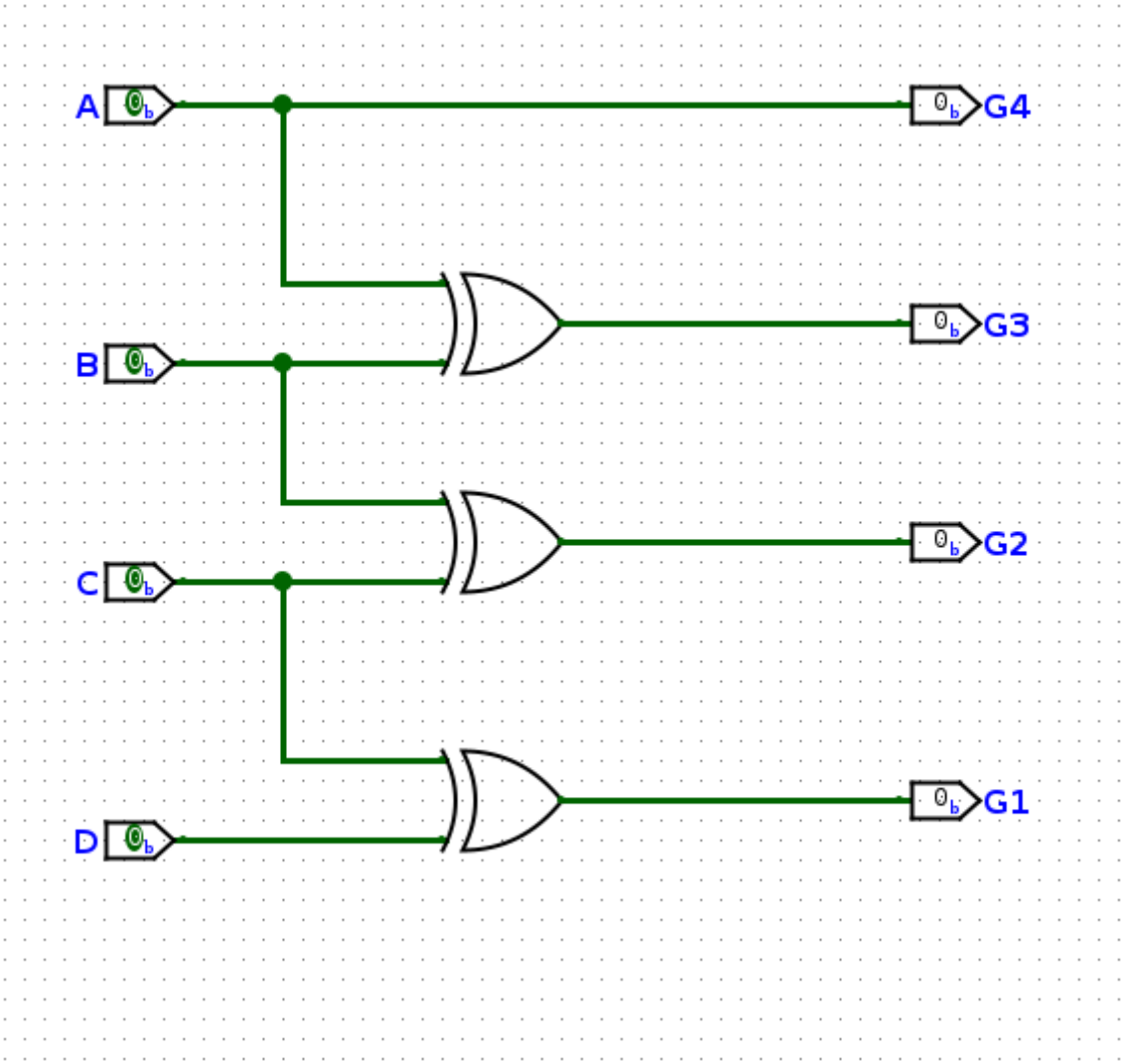
Nome : **Angemydelson Saint Bert**
Matrícula : **2121101002**
Prof : **Caimi Luciano**
Disciplina : **Circuitos Digitais**

Tarefa 1
O Cricuito



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A Tabela verdade

A	B	C	D	G4	G3	G2	G1
0	0	0	0	0	0	0	0
0	0	0	1	0	0	0	1
0	0	1	0	0	0	1	1
0	0	1	1	0	0	1	0
0	1	0	0	0	1	1	0
0	1	0	1	0	1	1	1
0	1	1	0	0	1	0	1
0	1	1	1	0	1	0	0
1	0	0	0	1	1	0	0
1	0	0	1	1	1	0	1
1	0	1	0	1	1	1	1
1	0	1	1	1	1	1	0
1	1	0	0	1	0	1	0
1	1	0	1	1	0	1	1
1	1	1	0	1	0	0	1
1	1	1	1	1	0	0	0

A Expressão

$$G4 = A$$

$$G3 = A \oplus B$$

$$G2 = B \oplus C$$

$$G1 = C \oplus D$$

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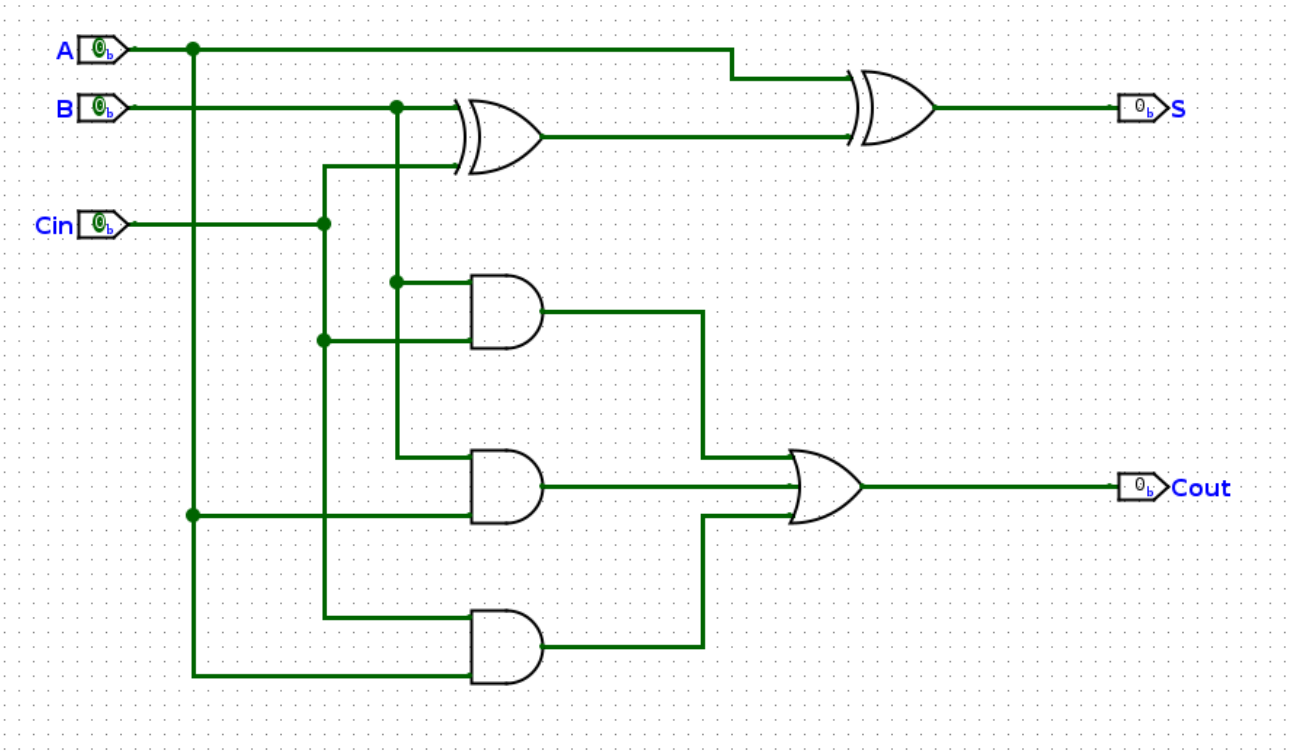
Tarefa 2

O circuito



A tabela verdade

A	B	Cin	S	Cout
0	0	0	0	0
0	0	1	1	0
0	1	0	1	0
0	1	1	0	1
1	0	0	1	0
1	0	1	0	1
1	1	0	0	1
1	1	1	1	1

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As expressoẽs

$$S = A \oplus B \oplus Cin$$

$$Cout = B \cdot Cin + B \cdot A + Cin \cdot A$$