1)

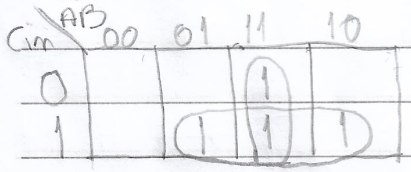
Entradas			Saídas	
A	B	Cin	Cout	S
0	0	0	0	0
0	0	1	0	1
0	1	0	0	1
0	1	1	1	0
1	0	0	0	1
1	0	1	1	0
1	1	0	1	0
1	1	1	1	1

2) $\overline{A}.B.C_{in} + A.\overline{B}.C_{in} + A.B.\overline{C_{in}} + A.B.C_{in}$

3) • $S = \overline{A}.\overline{B}.C_{in} + A.B.C_{in} + \overline{A}.B.\overline{C_{in}} + A.\overline{B}.C_{in}$

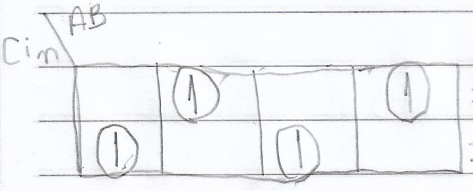
4) Expressão para Cout

Cout



Expressão para 'S'

S



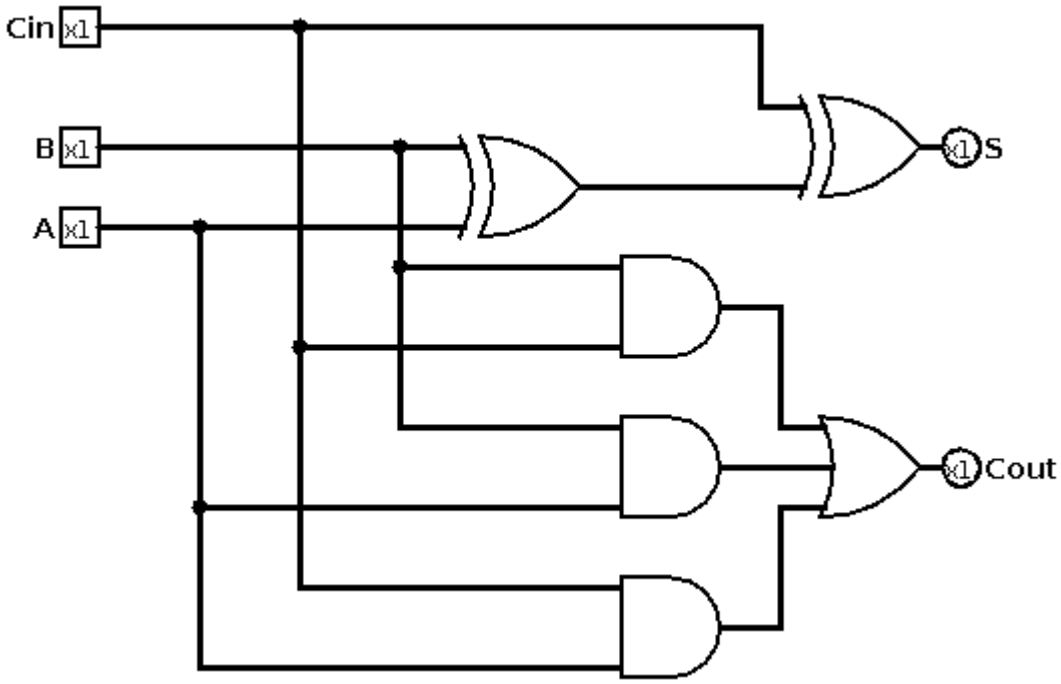
$S = \overline{A}.\overline{B}.C_{in} + A.B.C_{in} + \overline{A}.B.\overline{C_{in}}$

$= (\overline{A}.\overline{B} + A.B).C_{in} + (\overline{A}.B + A.\overline{B}).\overline{C_{in}}$

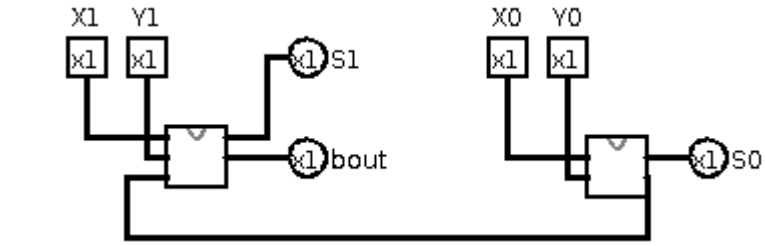
$= \overline{(A \oplus B)}.C_{in} + (A \oplus B).\overline{C_{in}}$

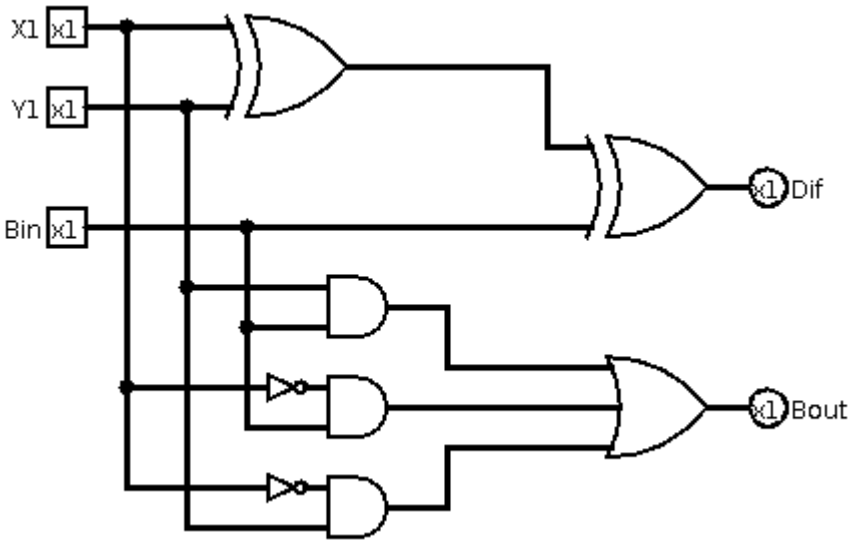
$= (A \oplus B) \oplus$

V-)


Cin
x1
B
x1
A
x1
x1
S
x1
Cout

2-)


X1
Y1
x1
x1
x1
S1
x1
bout
X0
Y0
x1
x1
x1
S0


X1
x1
Y1
x1
Bin
x1
x1
Dif
x1
Bout