

EXERCÍCIO 1

PORCAS	PARAFUSOS	A	B	C
0	0	0	0	0
0	1	0	1	0
1	0	1	0	0
1	1	0	0	1

$A = \text{Porcas} \cdot \text{Parafusos}'$

$B = \text{Porcas}' \cdot \text{Parafusos}$

$C = \text{Porcas} \cdot \text{Parafusos}$

EXERCÍCIO 2

Botão DESCER	Botão SUBIR	S0	S1	S2
0	0	1	0	0
0	1	0	1	1
1	0	0	0	0
1	1	1	1	1

$S0 = D'S' + DS = D \text{ nxor } S$

$S1 = S$

$S2 = S$

$S3 = D$

$S4 = D$

S3	S4
0	0
0	0
1	1
1	1

EXERCÍCIO 3					
A1	A0	B1	B0	S1	S2
0	0	0	0	1	0
0	0	0	1	0	0
0	0	1	0	0	0
0	0	1	1	0	0
0	1	0	0	0	1
0	1	0	1	1	0
0	1	1	0	0	0
0	1	1	1	0	0
1	0	0	0	0	1
1	0	0	1	0	1
1	0	1	0	1	0
1	0	1	1	0	0
1	1	0	0	0	1
1	1	0	1	0	1
1	1	1	0	0	1
1	1	1	1	1	0

S1	A'B'	A'B	AB	AB'
C'D'	1	0	0	0
C'D	0	1	0	0
CD	0	0	1	0
CD'	0	0	0	1

S1 = A'B'C'D' + A'BC'D + AB'CD' + ABCD

S2	A'B'	A'B	AB	AB'
C'D'	0	1	1	1
C'D	0	0	1	1
CD	0	0	1	0
CD'	0	0	0	0

S2 = AC' + BC'D' + ABD