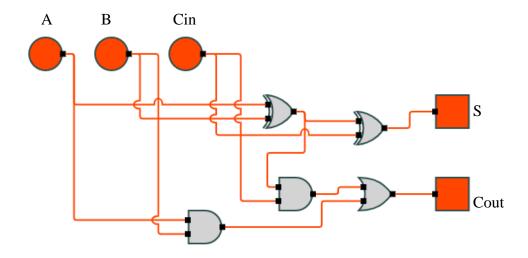
Adding two numbers

A Half-adder, with a 4-row truth table and showing inputs $A_0,\,B_0$ and outputs $C_1,\!S_1$

Α	В	С	S	A B
0	0	0	0	
0	1	0	1	
1	0	0	1	
1	1	1	0	
			•	S

Full-Adder, with an 8-row truth table and showing inputs A_0 , B_0 , C_0 and outputs C_1 , S_1

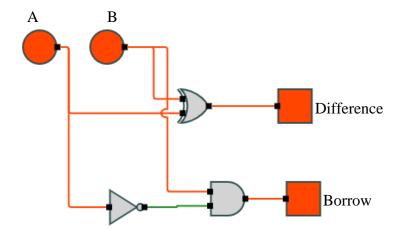
А	В	C ₀	C ₁	S
0	0	0	0	0
0	0	1	0	1
0	1	0	0	1
0	1	1	1	0
1	0	0	0	1
1	0	1	1	0
1	1	0	1	0
1	1	1	1	1



Subtracting two numbers

A Half-substractor, with a 4-row truth table and showing inputs A_0 , B_0 and outputs D_1 , B_1

Α	В	Difference	Borrow
0	0	0	0
0	1	1	1
1	0	1	0
1	1	0	0



Full-Subtractor, with an 8-row truth table and showing inputs A₀, B₀, Bin and outputs D₁, Bout₁

Α	В	Bin	D	Bout
0	0	0	0	0
0	0	1	1	1
0	1	0	1	1
0	1	1	0	1
1	0	0	1	0
1	0	1	0	0
1	1	0	0	0
1	1	1	1	1

