

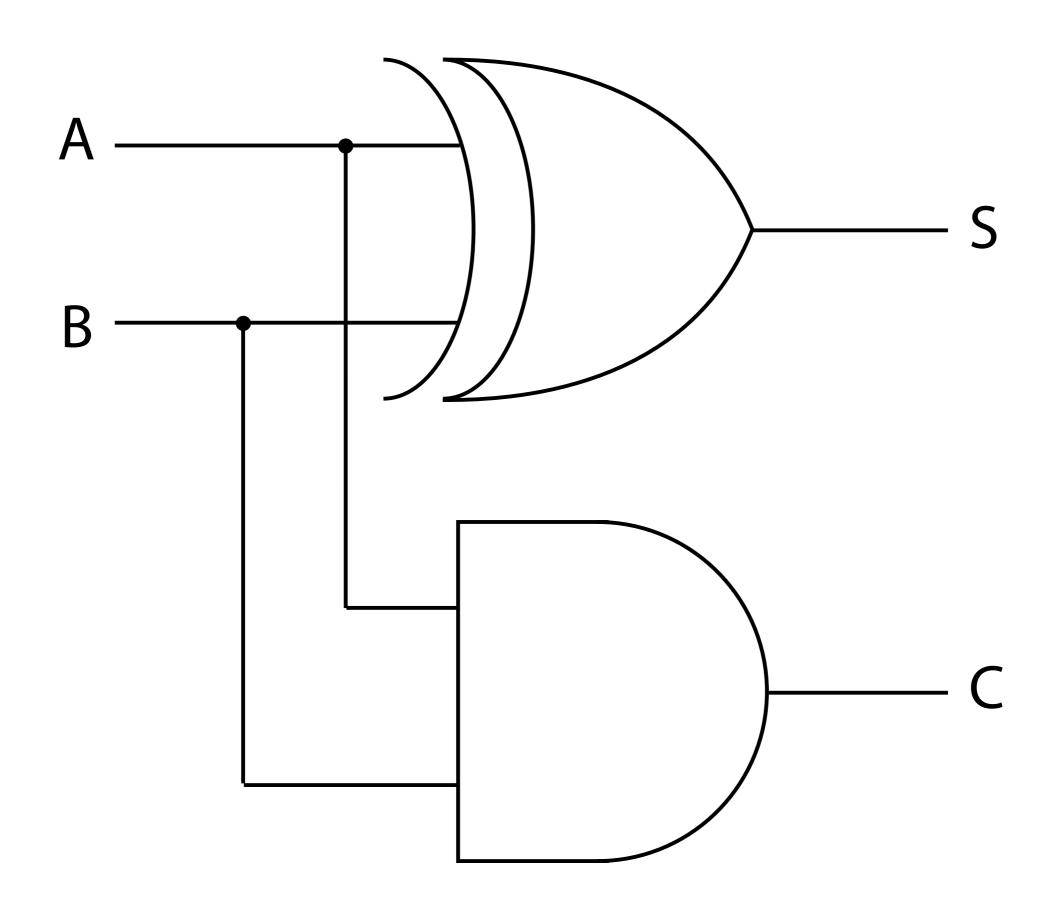
	bin	decimal		
0	0	0	0	0
0	0	0	1	1
0	0	1	0	2
0	0	1	1	3
0	1	0	0	4
0	1	0	1	5
0	1	1	0	6
0	1	1	1	7
1	0	0	0	8
1	0	0	1	9
1	0	1	0	10
1	0	1	1	11
1	1	0	0	12
1	1	0	1	13
1	1	1	0	14
1	1	1	1	15

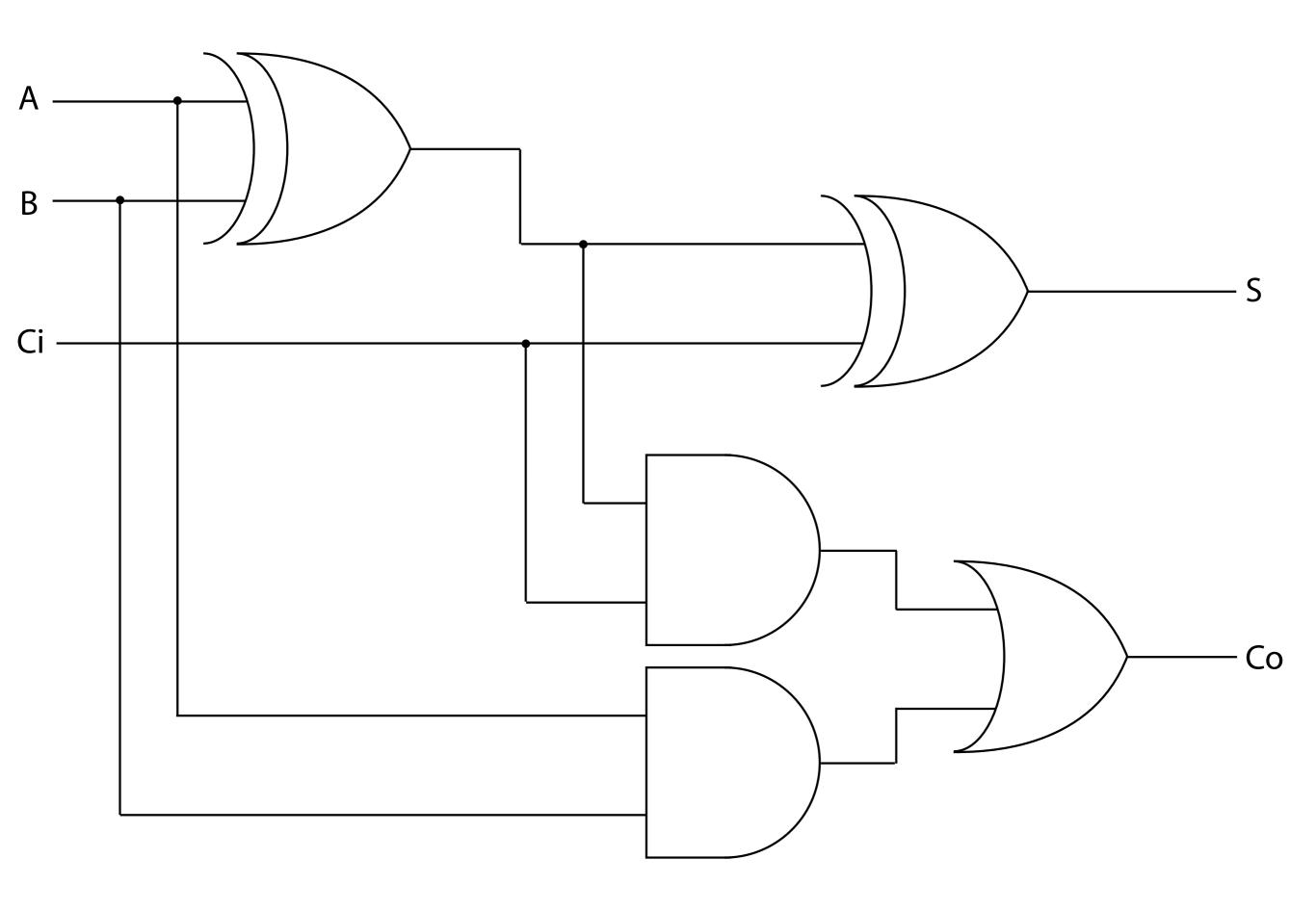
MSB LSB

$$d = \sum_{i=0}^{n} b_i 2^i$$

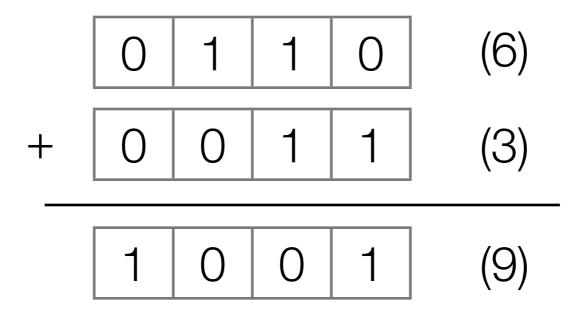
binary				decimal	hexadecimal
0	0	0	0	0	0
0	0	0	1	1	1
0	0	1	0	2	2
0	0	1	1	3	3
0	1	0	0	4	4
0	1	0	1	5	5
0	1	1	0	6	6
0	1	1	1	7	7
1	0	0	0	8	8
1	0	0	1	9	9
1	0	1	0	10	Α
1	0	1	1	11	В
1	1	0	0	12	С
1	1	0	1	13	D
1	1	1	0	14	E
1	1	1	1	15	F

	binary	decimal	hexadecimal		
base	2	10	16		
characters	0 1	0 1 2 3 4 5 6 7 8 9	0 1 2 3 4 5 6 7 8 9 A B C D E F		
notation	#b	# #d	#h \$# 0x#		





(addition is an exclusive OR with carry)



straight binary 0 1 1 0 (6)

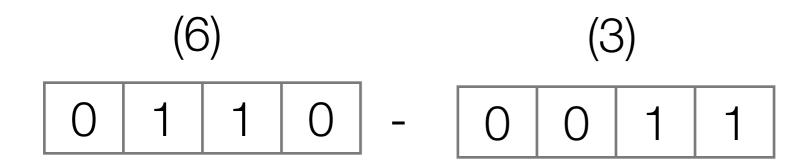
one's complement (flip all the bits)

1 0 0 1

two's complement (add 1)

1 0 1 0 (-6)

sign bit (subtraction is addition of the two's complement)



two's complement