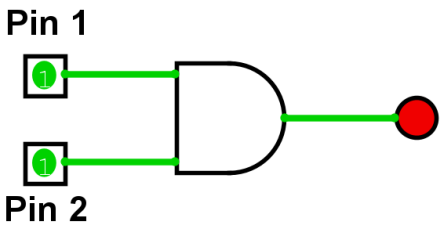
Ewan Robson (103992579)

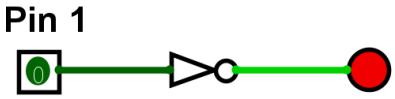
Lab 1

5:



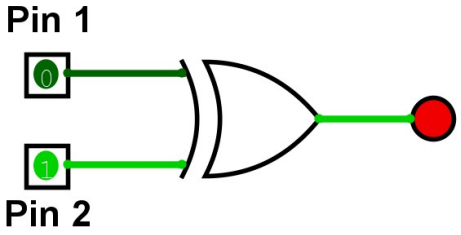
AND		
1	0	0
0	1	0
1	0	0
1	1	1

8:



NOT	
0	1
1	0

10:



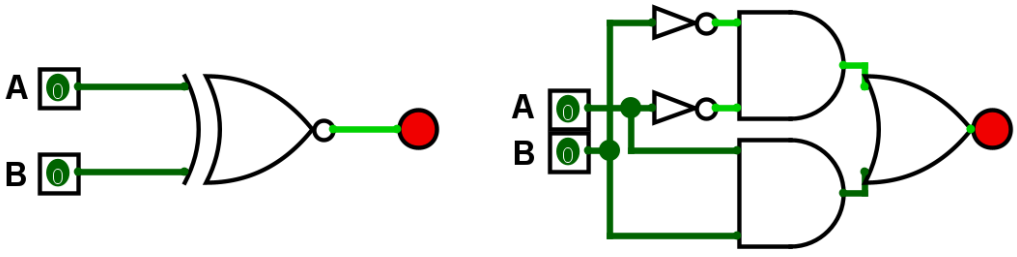
XOR		
0	0	0
1	0	1
0	1	1
1	1	0

12:

XNOR gate is required and thus A and B are required to be the same for the result to be true. To write this in boolean algebraic form is done as follows:

$A \odot B$ or $(A \cdot B)+(!A \cdot !B)$

13:



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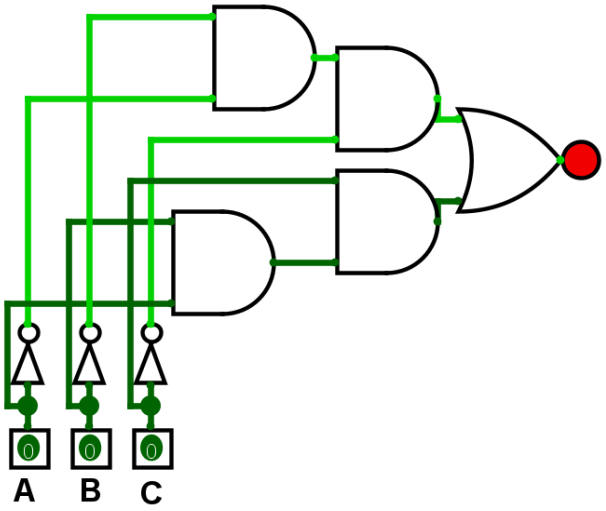
15:



A	B	C	Output
0	0	0	1
1	0	0	0
0	1	0	0
0	0	1	0
1	1	0	0
1	0	1	0
0	1	1	0
1	1	1	1