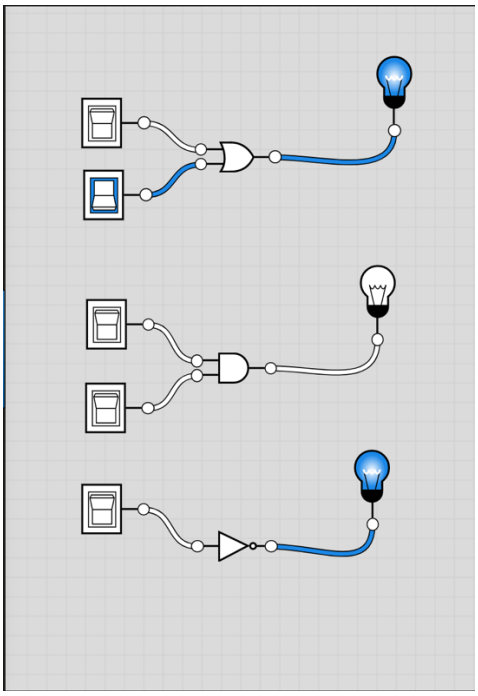
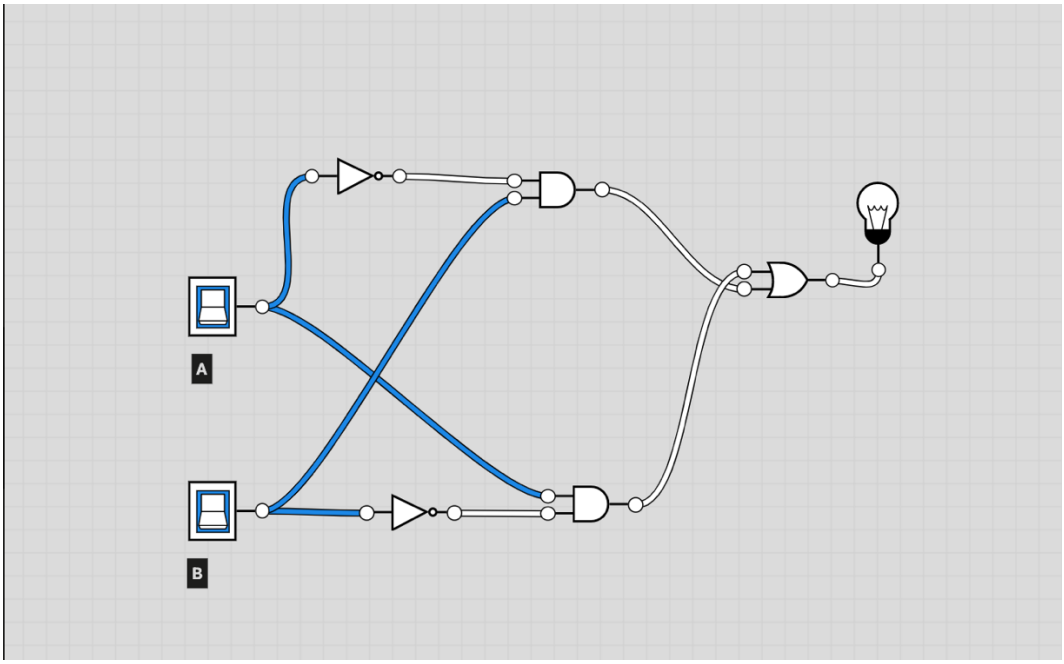
1.



2. The Boolean Expression: Z= (A’ * B) + (A * B’).
Z= (NOT A AND B) OR (A AND NOT B).



3.

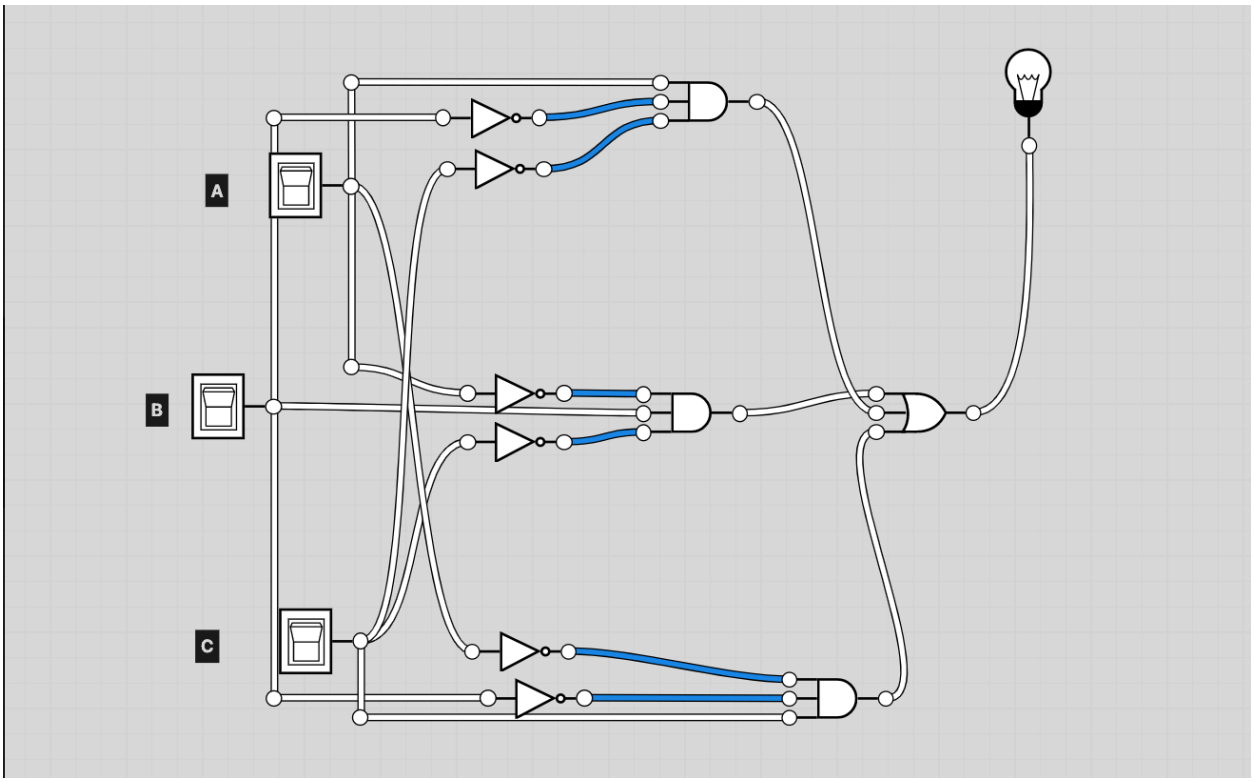
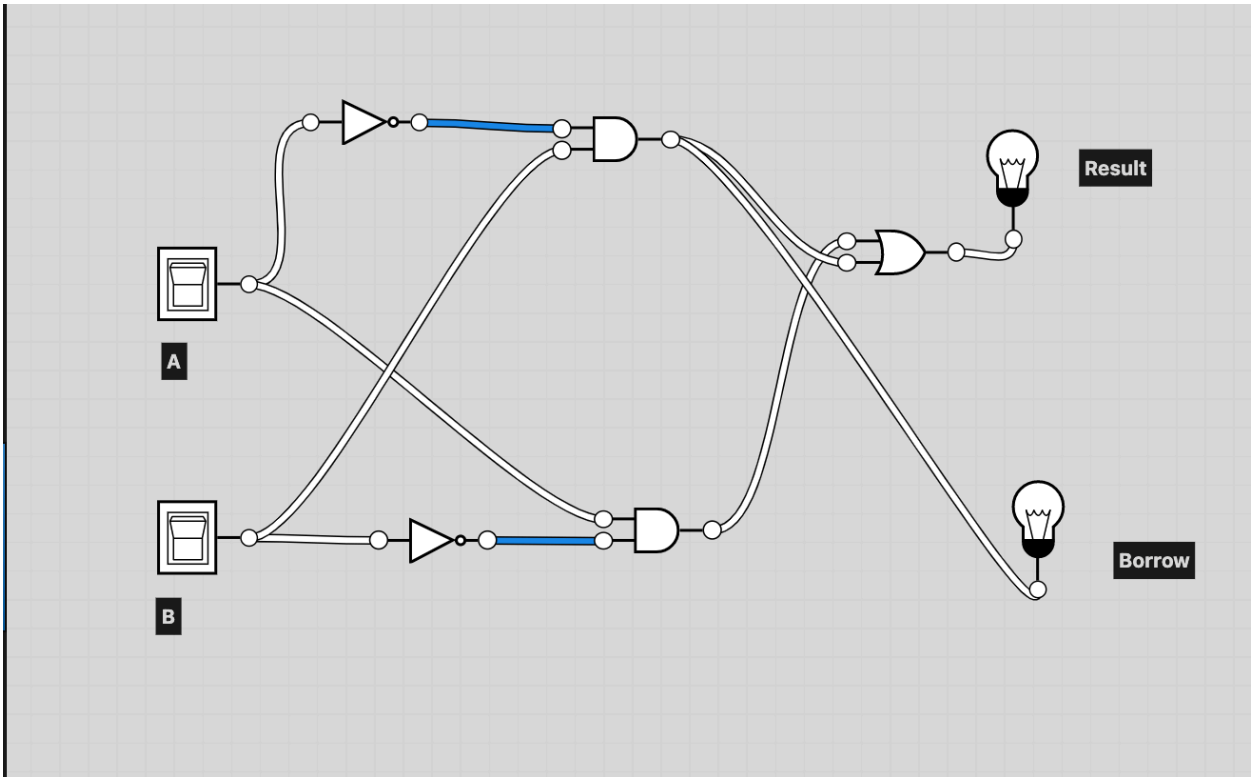
Truth Table:

A	B	C	Out
0	0	0	0
1	0	0	1
0	1	0	1
0	0	1	1
1	0	1	0
1	1	0	0
0	1	1	0
1	1	1	0

Boolean expression:

Z = (NOT A AND NOT B AND C) OR (NOT A AND B AND NOT C) OR (A AND NOT B AND NOT C).

Z= (A’ * B’ * C) + (A’ * B * C’) + (A * B’ * C’).



4.