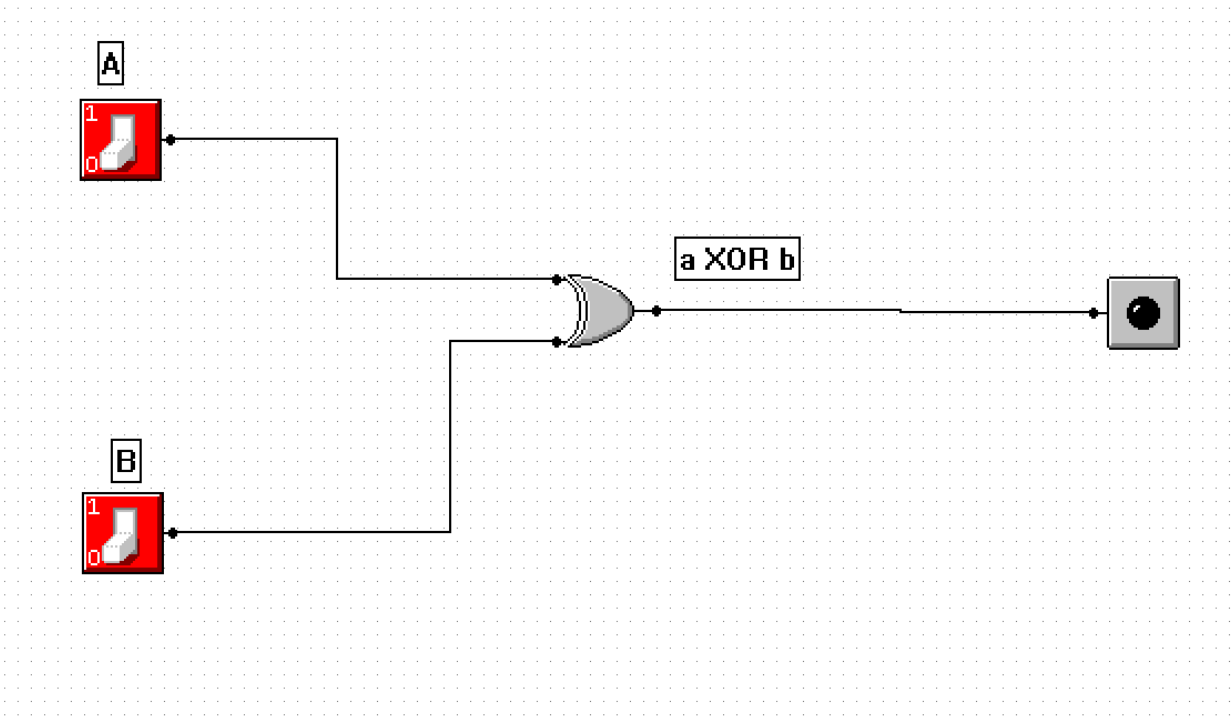
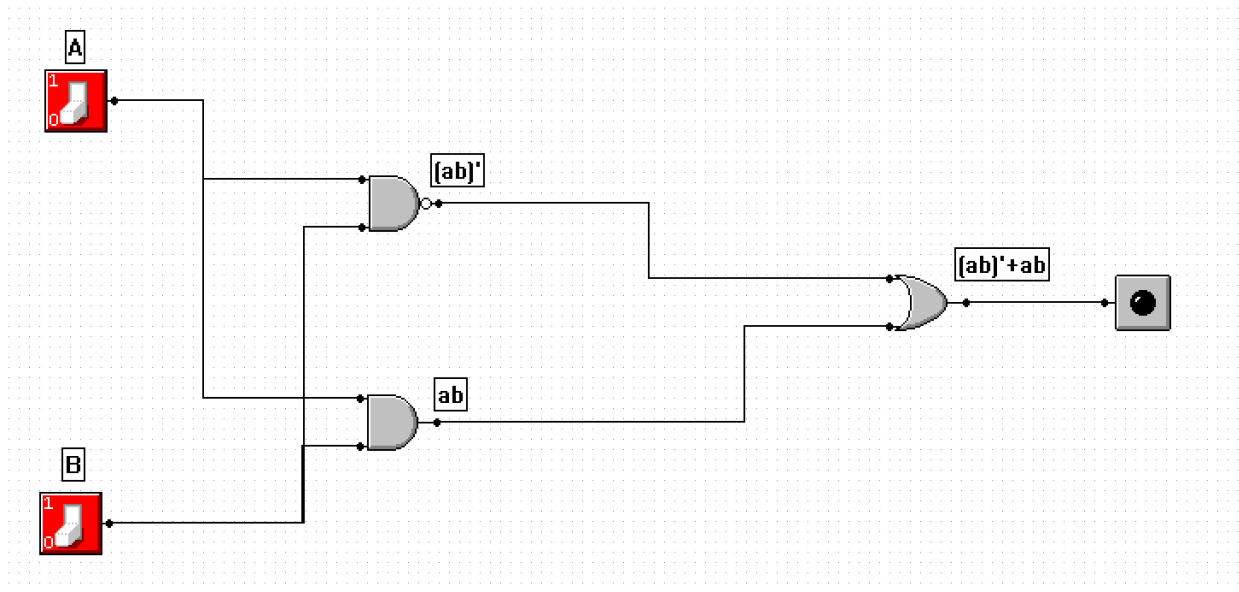


Equation =  $a'b + ab'$

A	B	$a'$	$b'$	$a'b$	$ab'$	$a'b + ab'$
1	1	0	0	0	0	0
0	1	1	0	1	0	1
1	0	0	1	0	1	1
0	0	1	1	0	0	0

Can be replaced with an XOR gate

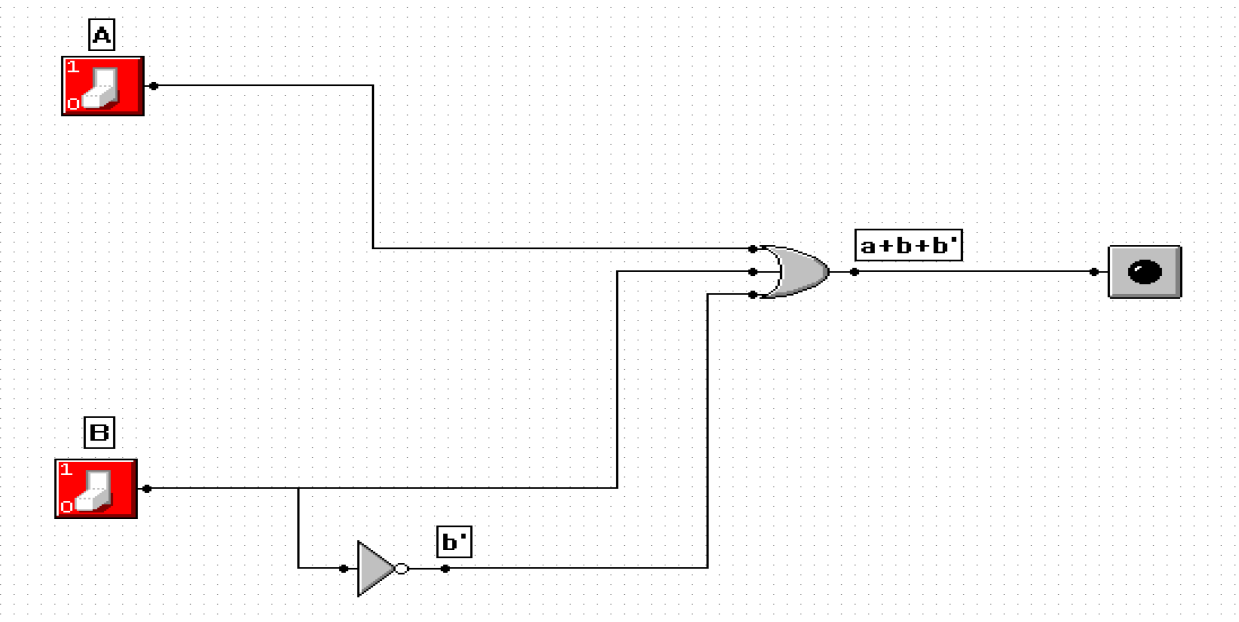




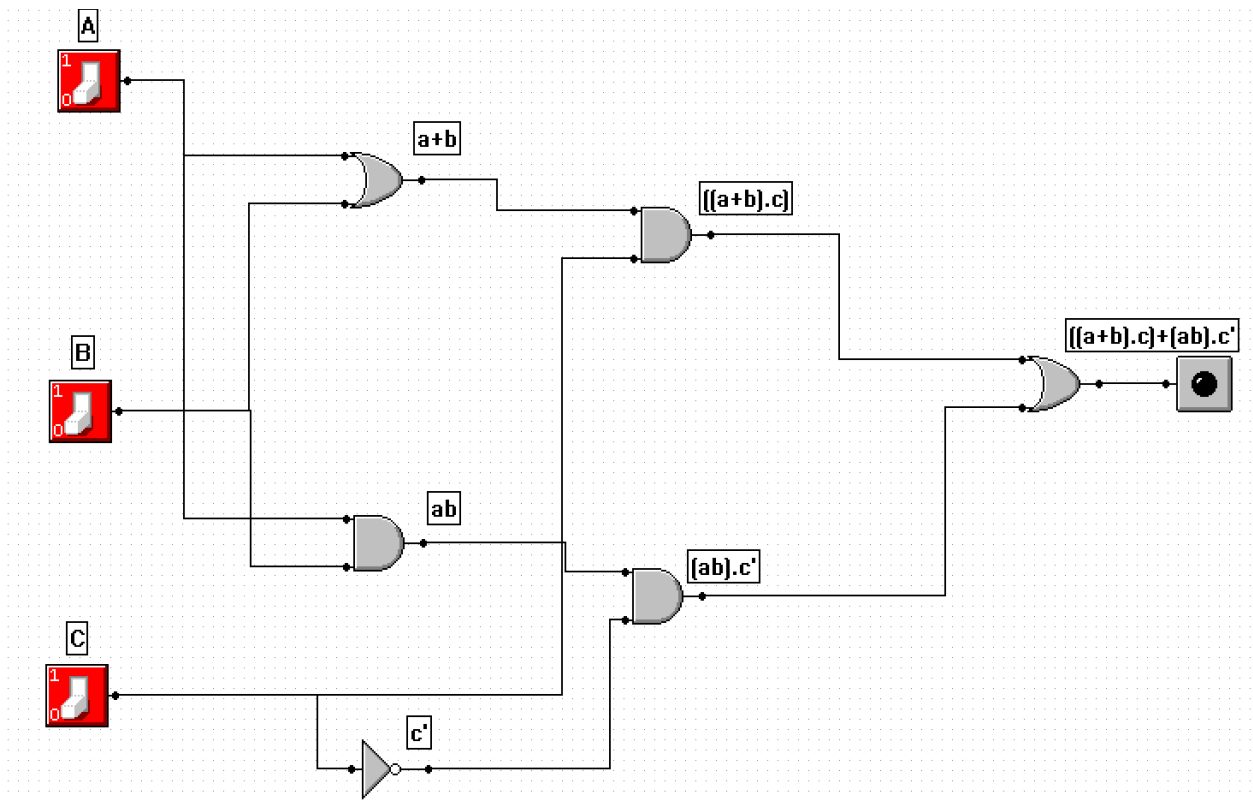
Equation =  $(ab)' + ab$

A	B	$(ab)'$	$ab$	$(ab)' + ab$
1	1	0	1	1
1	0	1	0	1
0	1	1	0	1
0	0	1	0	1

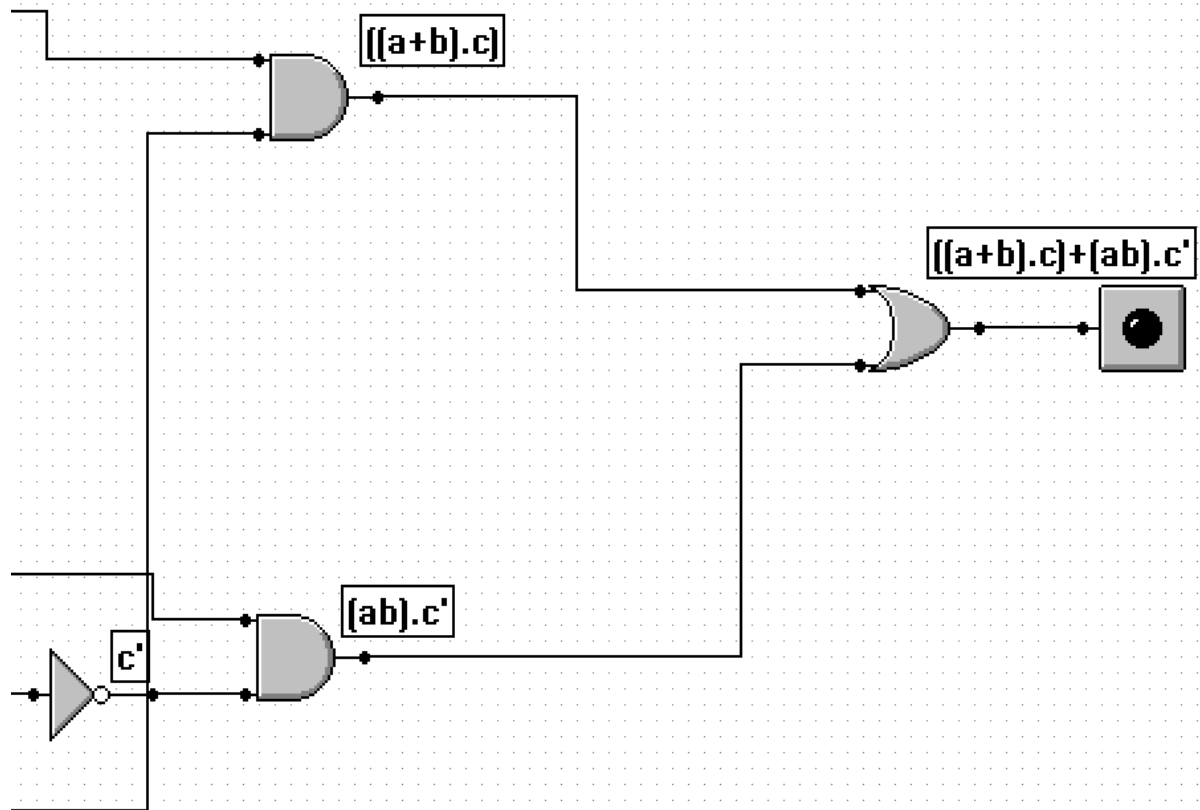
Simpler this way



Equation =  $a + b + b'$



A	B	C	$a+b$	$ab$	$c'$	$((a+b).c)$	$(ab).c'$	$((a+b).c) + ((ab).c')$
1	1	1	1	1	0	1	0	1
1	1	0	1	1	1	0	1	1
1	0	0	1	0	1	0	0	0
1	0	1	1	0	0	1	0	1
0	1	1	1	0	0	1	0	1
0	0	1	0	0	0	0	0	0
0	1	0	1	0	1	0	0	0
0	0	0	0	0	1	0	0	0



This is the multiplexer part