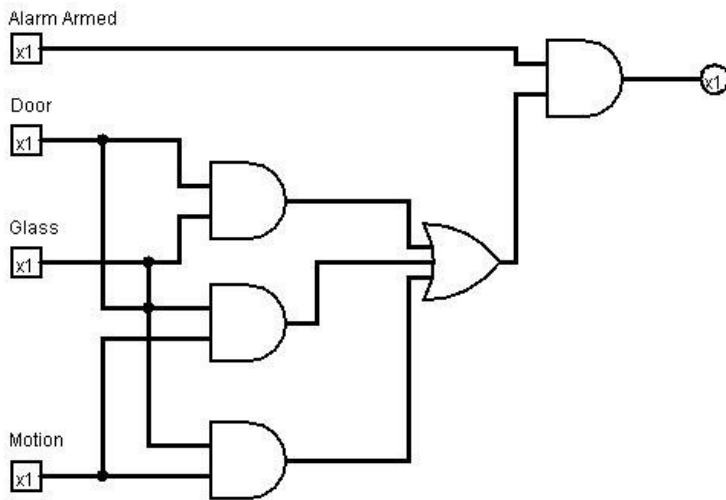
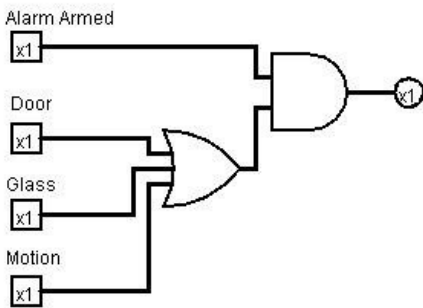
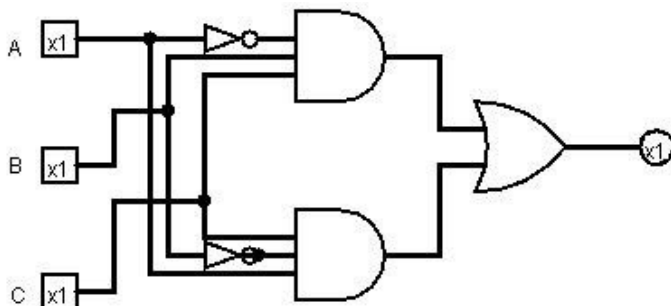


Assignment 1



Note the bottom graphic is a solution for the Challenge problem. This bottom circuit will only enable the alarm if two or more of the conditions of “open door”, “broken glass”, or “motion detected” are true.

Assignment 2



Truth Table for Assignment 2

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

1	1	0	0
1	1	1	0
0	0	1	0
1	0	1	1
0	1	0	0
0	1	1	1

Assignment 3

Truth Table for XNOR

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

Circuit for XNOR

