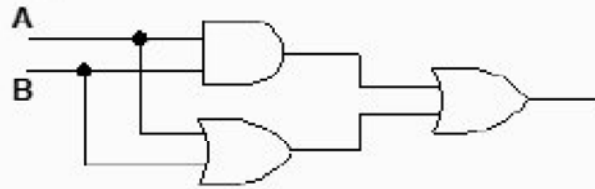


Note as explained in class:
 + is logical OR
 . is Logical AND

Q Show the behavior of the above circuit with a truth table

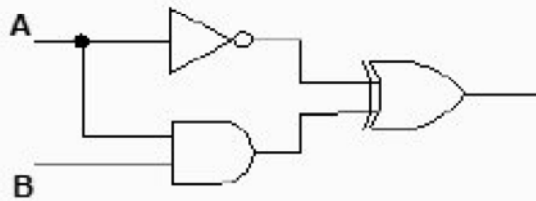
A	B	C	AB	$(BC)'$	C'	$(AB+C)'$	$(BC)'+(AB+C)'$
0	0	0	0	1	1	0	1
0	0	1	0	1	0	1	1
0	1	0	0	1	1	0	1
0	1	1	0	0	0	1	1
1	0	0	0	1	1	0	1
1	0	1	0	1	0	1	1
1	1	0	1	1	1	0	1
1	1	1	1	0	0	0	0

59. Show the behavior of the following circuit with a truth table:



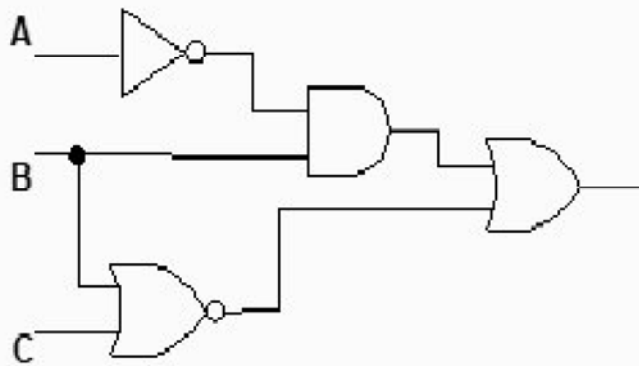
A	B	AB	A+B	AB + (A+B)
0	0	0	0	0
0	1	0	1	1
1	0	0	1	1
1	1	1	1	1

60. Show the behavior of the following circuit with a truth table:

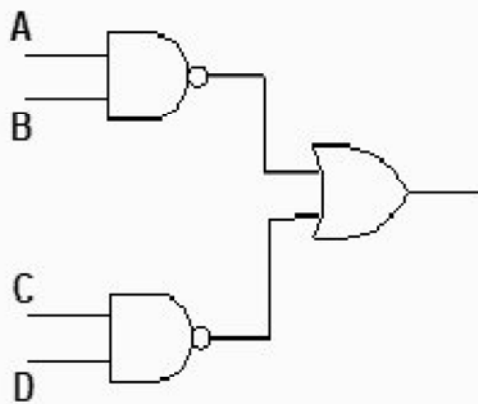


A	B	A'	AB	A' ⊕ (AB)
0	0	1	0	1
0	1	1	0	1
1	0	0	0	0
1	1	0	1	1

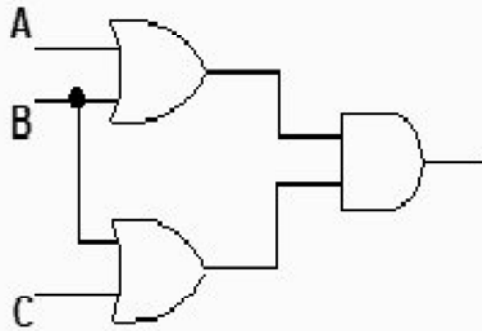
57. Draw a circuit diagram corresponding to the following Boolean expression:
 $A'B + (B+C)'$



58. Draw a circuit diagram corresponding to the following Boolean expression:
 $(AB)' + (CD)'$



55. Draw a circuit diagram corresponding to the following Boolean expression:
 $(A + B)(B + C)$



56. Draw a circuit diagram corresponding to the following Boolean expression:
 $(AB + C)D$

