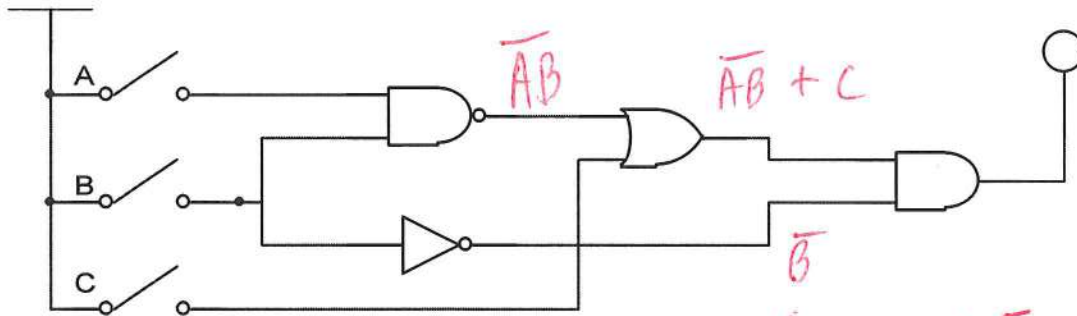


Digital Electronics --- Boolean Expressions QUIZ Practice

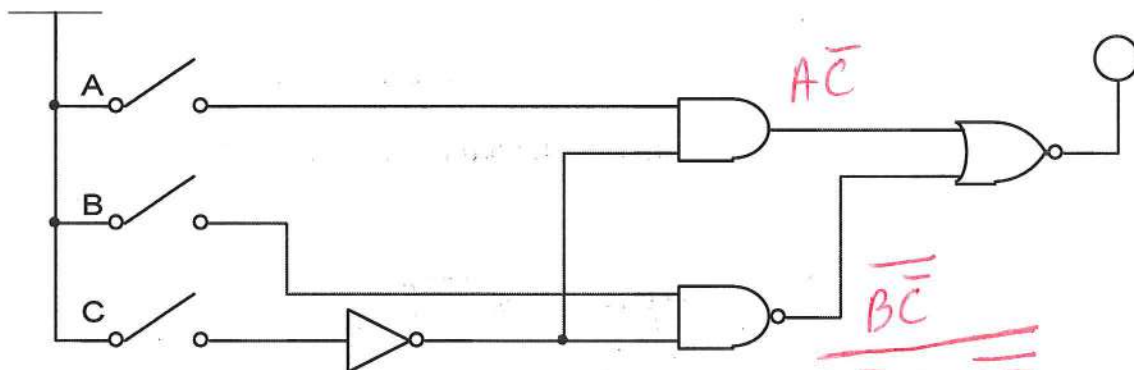
Name _____

1) Create a Boolean expression from the circuit below:



Boolean Expression $(\overline{A}B + C)\overline{B}$

2) Create a Boolean expression from the circuit below:



Boolean Expression $A\overline{C} + \overline{B}\overline{C}$

Complete the truth table below from the Boolean expression:

A	B	C	$A\overline{C}$	$\overline{B}\overline{C}$	$\overline{B}\overline{C}$	$A\overline{C} + \overline{B}\overline{C}$	$A\overline{C} + \overline{B}\overline{C}$
0	0	0	0	0	1	1	0
0	0	1	0	0	1	1	0
0	1	0	0	1	0	0	1
0	1	1	0	0	1	1	0
1	0	0	1	0	1	1	0
1	0	1	0	0	1	1	0
1	1	0	1	1	0	1	0
1	1	1	0	0	1	1	0

Digital Electronics --- Boolean Expressions QUIZ Practice

3) Complete the circuit below given the following truth table:

A	B	C	Y
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	1

$\bar{A}\bar{B}\bar{C}$

$\bar{A}BC$

ABC

