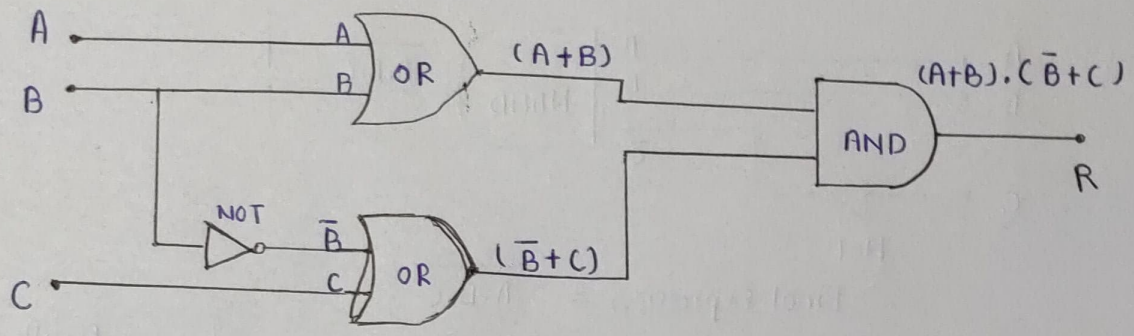
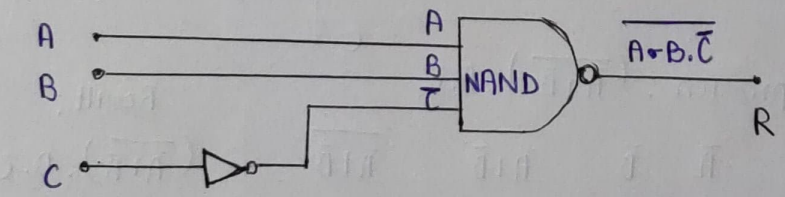
(A) Circuit 1



Final Expression = $(A+B).(\bar{B}+C)$

Sr No	A	B	C	$\bar{B}$	A+B	$\bar{B}+C$	Result: $(A+B).(\bar{B}+C)$
1.)	0	0	0	1	0	1	0
2.)	0	0	1	1	0	1	0
3.)	0	1	0	0	1	0	0
4.)	0	1	1	0	1	1	1
5.)	1	0	0	1	1	1	1
6.)	1	0	1	1	1	1	1
7.)	1	1	0	0	1	0	0
8.)	1	1	1	0	1	1	1

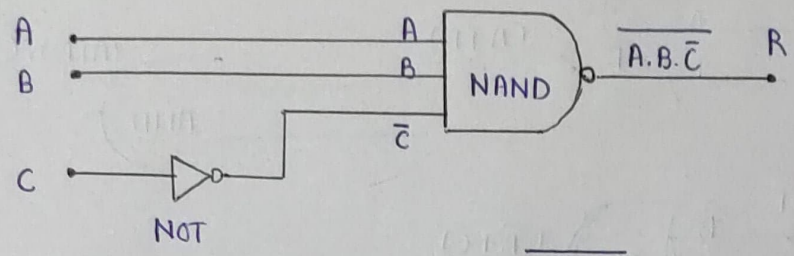
(B) Circuit 2



Final Expression : $\overline{A.B.\bar{C}}$

Sr No	$\bar{C}$	A	B	C	$\overline{A.B.\bar{C}}$ [Result]
1.)	1	0	0	0	
2.)	0	0	0	1	
3.)	1	0	1	0	
4.)	0	0	1	1	
5.)	1	1	0	0	
6.)	0	1	0	1	
7.)	1	1	1	0	
8.)	0	1	1	1	

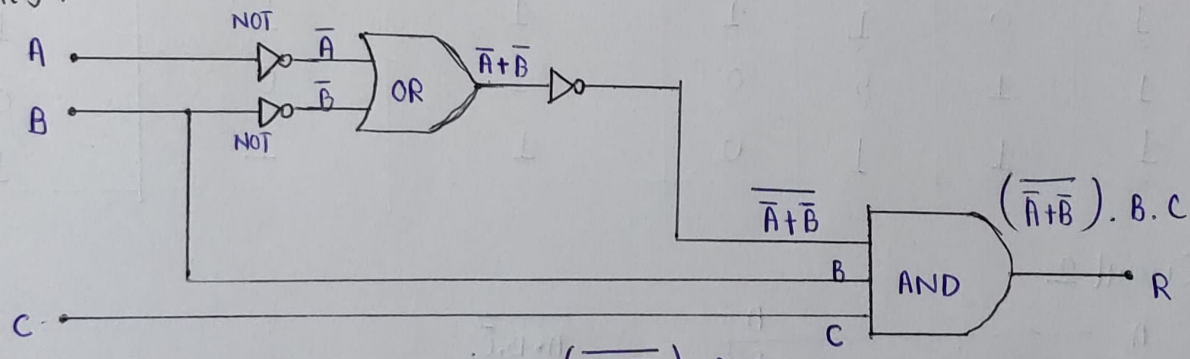
Circuit 2 :



Final Expression = $\overline{A.B.\bar{C}}$

Sr No	A	B	C	$\bar{C}$	$A.B.\bar{C}$	Result : $\overline{A.B.\bar{C}}$
1.)	0	0	0	1	0	1
2.)	0	0	1	0	0	1
3.)	0	1	0	1	0	1
4.)	0	1	1	0	0	1
5.)	1	0	0	1	0	1
6.)	1	0	1	0	0	1
7.)	1	1	0	1	1	0
8.)	1	1	1	0	0	1

Circuit 3 :



Final Expression : $(\overline{\bar{A}+\bar{B}}).B.C$

Sr No	A	B	C	$\bar{A}$	$\bar{B}$	$\bar{A}+\bar{B}$	$\overline{\bar{A}+\bar{B}}$	Result : $(\overline{\bar{A}+\bar{B}}).B.C$
1.)	0	0	0	1	1	1	0	0
2.)	0	0	1	1	1	1	0	0
3.)	0	1	0	1	0	1	0	0
4.)	0	1	1	1	0	1	0	0
5.)	1	0	0	0	1	1	0	0
6.)	1	0	1	0	1	1	0	0
7.)	1	1	0	0	0	0	1	0
8.)	1	1	1	0	0	0	1	1