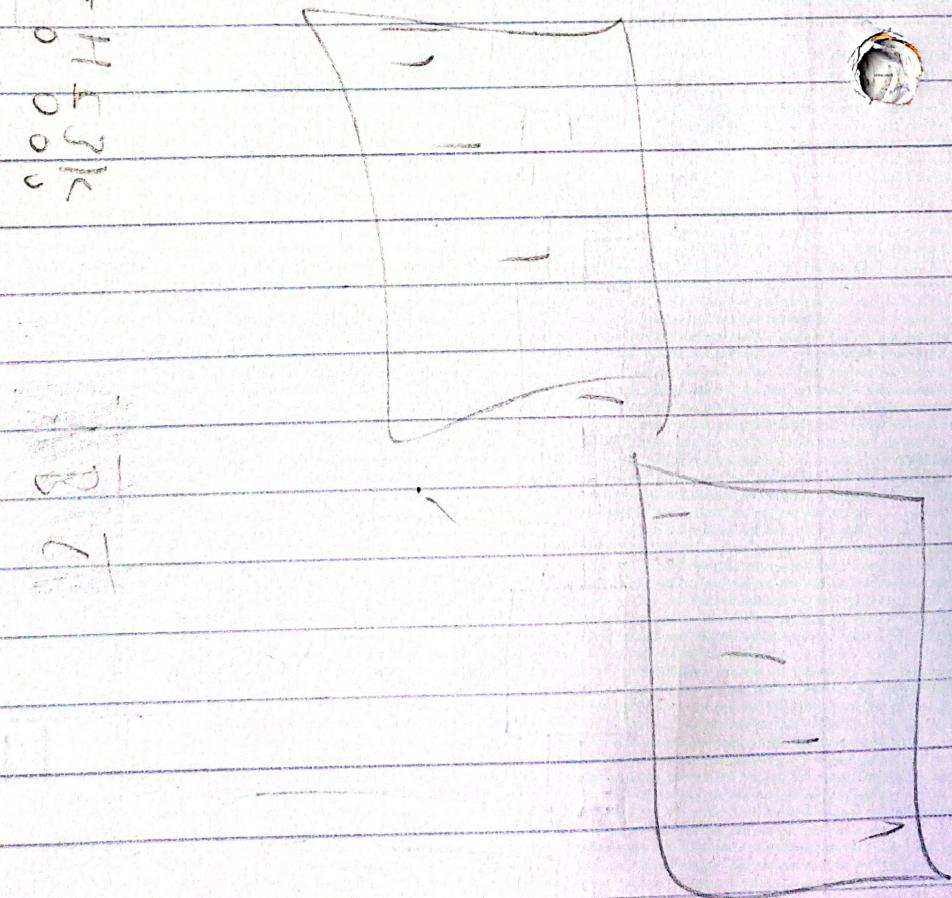
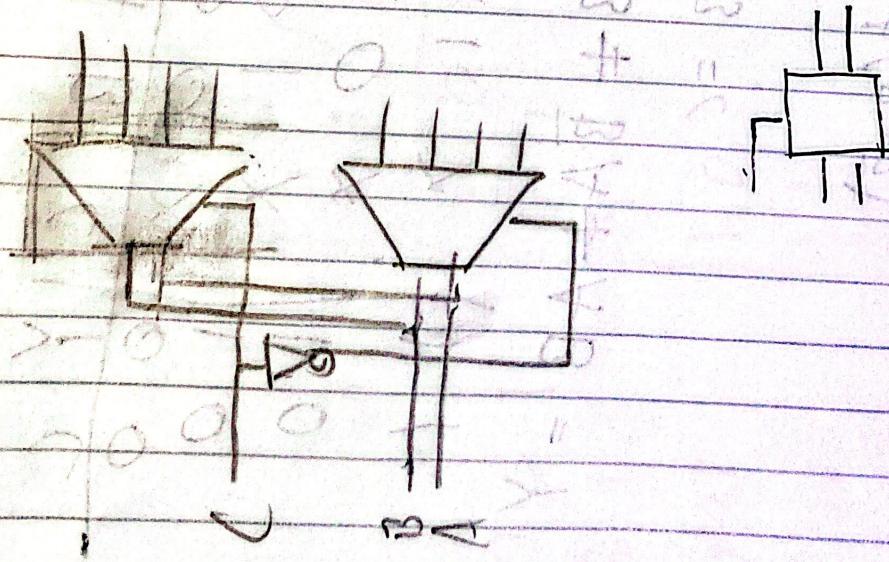
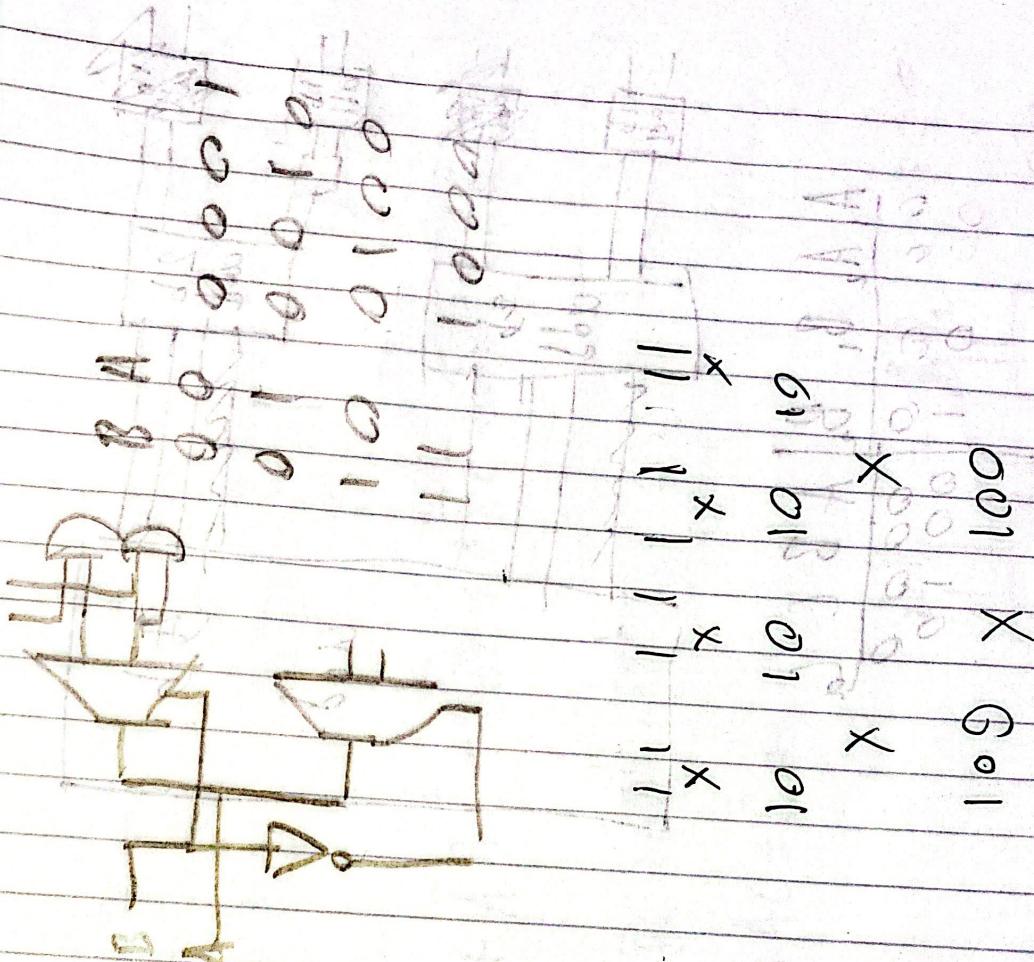
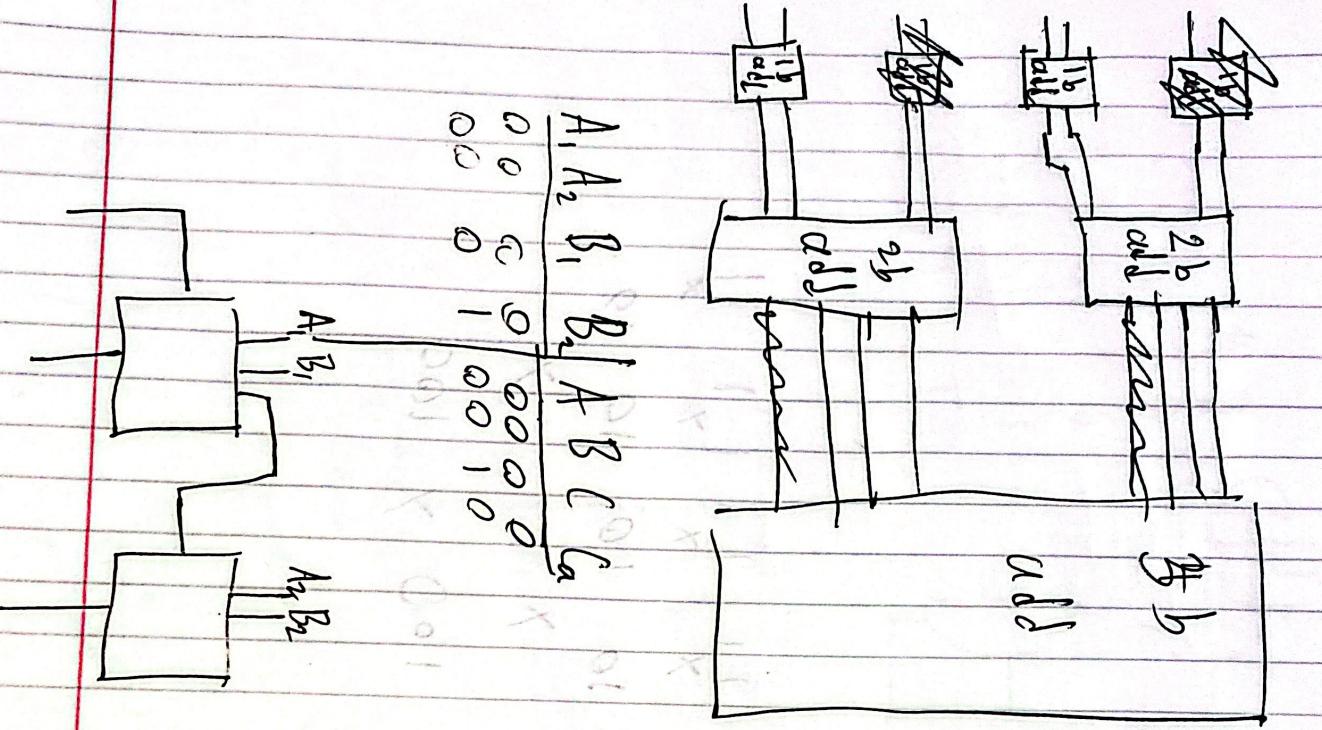


- O A
O B C
O O

O - D
D E F
O O P
O G H
O H I
O J K
O O







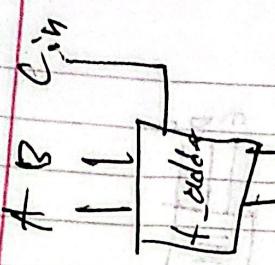
A_1	A_2	B_1	B_2	$A \oplus B$	C	C_{in}
0	0	0	0	0	0	0
0	0	0	1	1	0	0
0	0	1	0	1	0	0
0	0	1	1	0	1	0
0	1	0	0	1	0	0
0	1	0	1	1	0	0
0	1	1	0	0	1	0
0	1	1	1	1	1	0

$$\begin{aligned}
 & A \cdot B + \bar{A} \cdot \bar{B} = Y \\
 & \bar{A} \cdot B + \bar{B} \cdot A = C \\
 & A \cdot B = C
 \end{aligned}$$

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

$$\begin{aligned}
 & B(\bar{A}+A) \\
 & \bar{B}(1)+\bar{A}\bar{B} = A+B = Y \\
 & A \cdot B = C
 \end{aligned}$$

A	B	C_{in}	C_{out}	Y
0	0	0	0	0
0	0	1	0	1
0	1	0	0	1
0	1	1	1	0
1	0	0	1	1
1	0	1	0	1
1	1	0	1	1
1	1	1	1	1

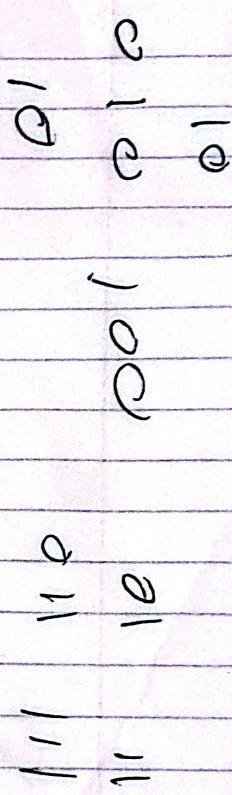
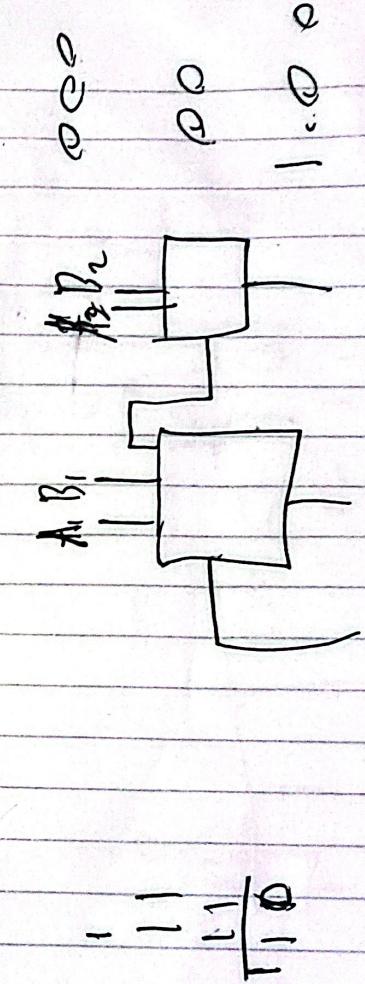


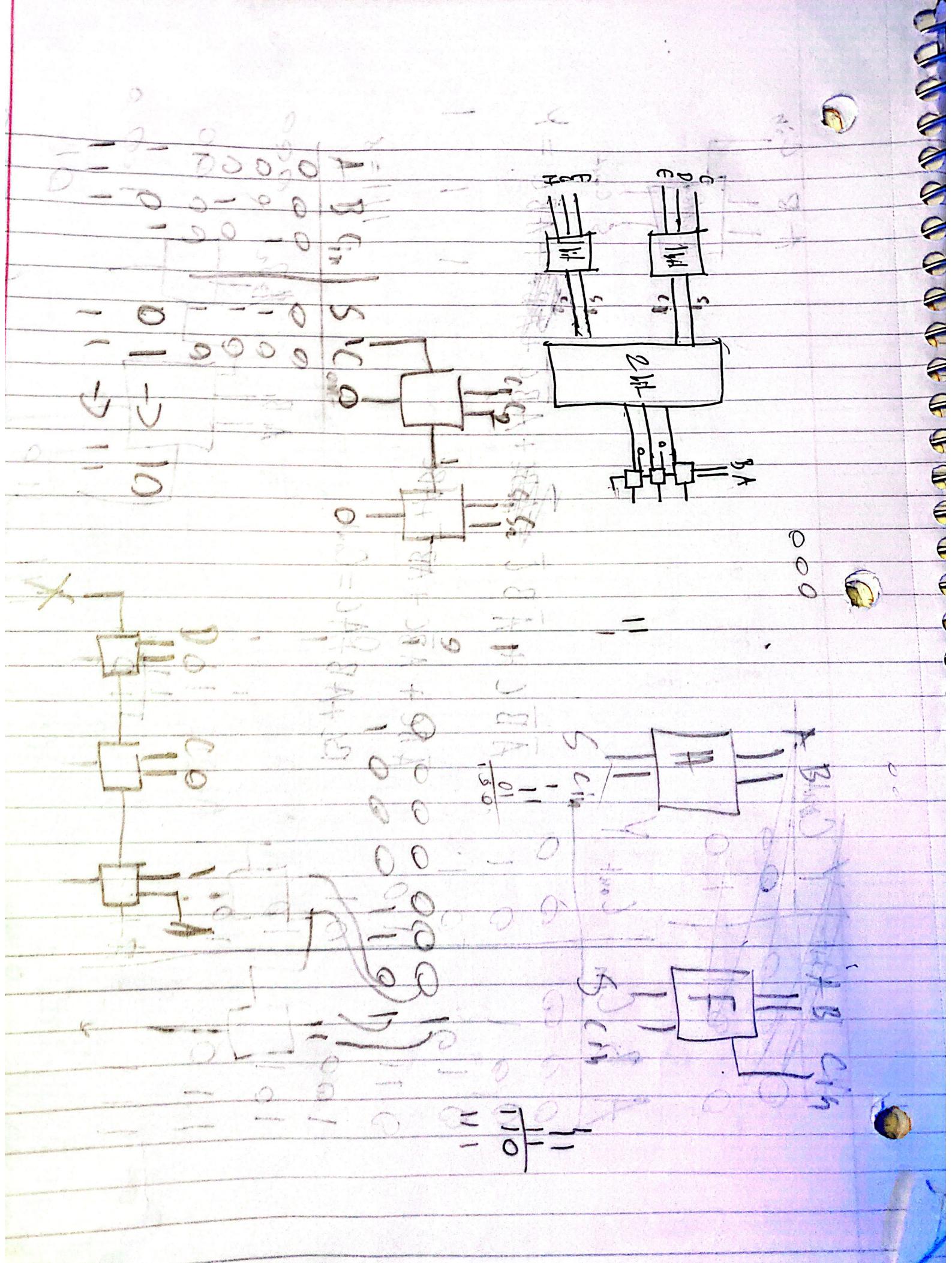
$$A\bar{B} + \bar{A}B = AB + \bar{AB} = A\bar{B} + \bar{A}B = Y$$

$$\bar{A}\bar{B}C + \bar{A}\bar{B}\bar{C} + A\bar{B}C + A\bar{B}\bar{C} = Y$$

$$\bar{A}\bar{B}C + A\bar{B}C + A\bar{B}\bar{C} + ABC = Y$$

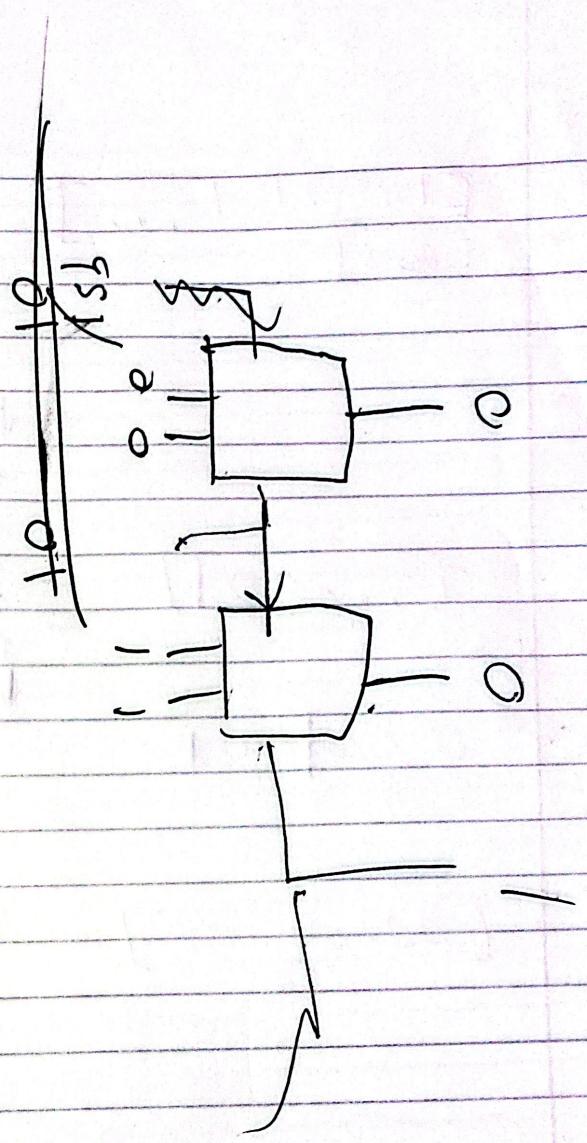
$$BC + AB + AC = C_{out}$$







$$A \cdot B + \overline{A} \cdot \overline{B} = A + B$$



$$\frac{N}{A} \cdot \frac{N}{B} = A \cdot B$$

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$$X = \emptyset$$