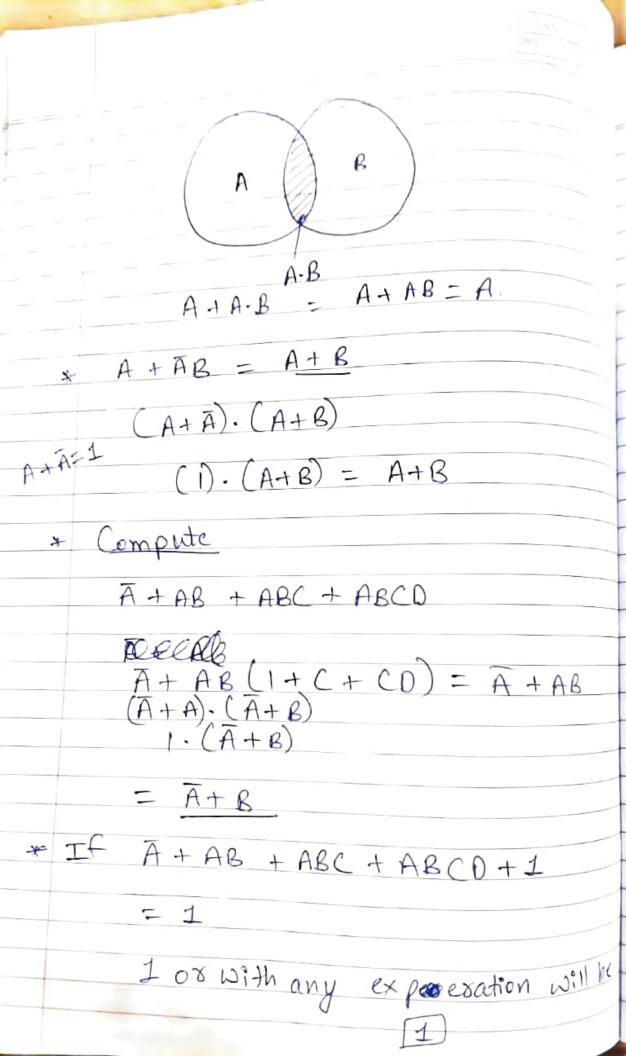


A+B NOR NOR as Ex-OR AB+ AB AB-AB A+B A+B.C) X = (A+B)-(A+C) A.A + A.C + B.A + B.C A+AC+BA+B.C A (1+ C+B) + BC A(1)+BC A+R.C A + AB = A(1+B) = A(1)



Equation. Equation of Algebraic Y = A + AB + ABC + ABCD = A+B Y = AB + CD + D + BC + (C + C) + BA Y = A(B+B) + D+BC+ 1+ BA Y = (A+B+B·C+C+B+BC+D+A+C Y = A.B + B+C+C+B+BC+D+A+C Y= (A+(BC)) (AB+ABC) XX ACCO SOR Y = (A'. ((BC))) (AB'+BC) = (A'.(BC)).(A(B'+C)) = (A'.BC) A. (B'+C) = 0

$$Q = xy + x'y + xyz'$$

$$= xy + x'y$$

$$= y(x+x')$$

$$= y(x+x')$$

$$= y(x+x')$$

$$= xy + x'y' + y'z$$

$$x - y - y'$$

$$y - y'z - F$$

$$y - y'z$$

Design the same cht wing or and not gate. F = xy + xy' + y'2 A.B = A+B A+B = A-B F = xy + x'y' + y'2 & dependent of action $=\overline{\chi}.\overline{y}=\chi y$ (x+y) + (x+y) + (y+z

$$F = \frac{\pi y + x'y' + y'^2}{(xy) \cdot (x'y' + y'^2)}$$

$$= (x+y) \cdot (x-y) \cdot (y+z)$$

$$= (x+y) + (x+y) + (y+z)$$

$$A+B+C = A \cdot B \cdot C$$

$$A \cdot B \cdot C = A + B + C$$

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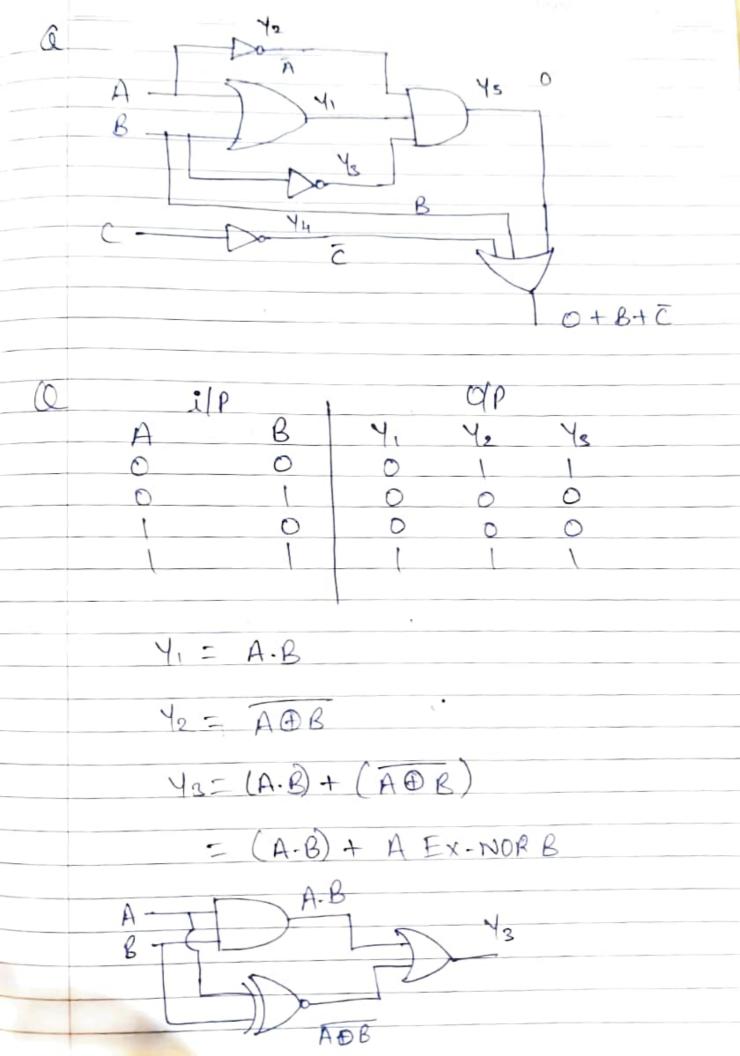
$$A \cdot B \cdot C = A + B + C$$

$$A \cdot B \cdot C = A + B + C$$

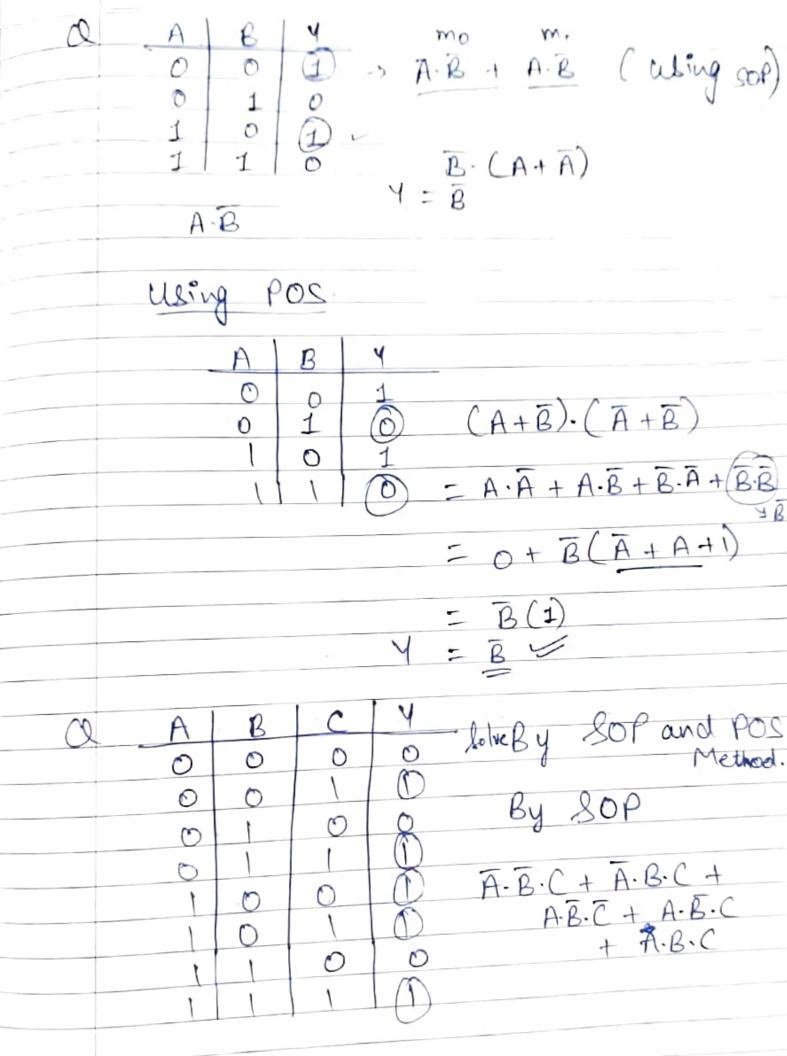
$$A \cdot B \cdot C = A + B + C$$

$$A \cdot B \cdot C = A + B + C$$

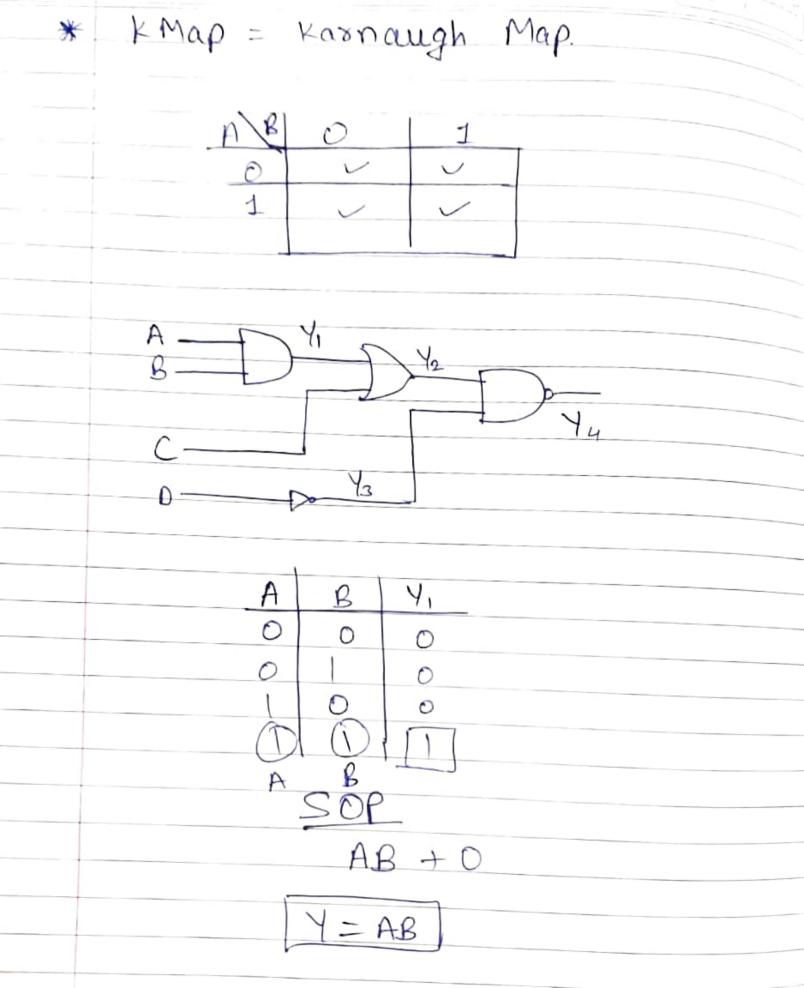
$$A \cdot$$



* SOP = Sum of Products min terme Y = ABC + ACB + ACB mo + m, + m2 Standard Sop SOP form & m. ending AB + B + BC + ABC Non Standar SOP form POS = Product of Sums. Max Y = (A+B).(B+C).(A+C) Y= TM A. (A+B)-(A+B+C) Non Standard POS. form. K-Map



Y= ABC + ABC + ABC + ABC + ABC + ABC Y= AC(B+B) + AB(C+C) + ABC Y= AC + AB + ABC. Y= AB + AC+ABC. Y = AC(B+B) + ABC + AC(B+B) Y = AC + ABC + AC. Y = C(A+A) + ABIC Y = C + ABC Y = (C+E)-(C+AB) Y= C+AB (A+B+C). (A+B+C). (A+B+C) Y=(A.A+A.B+A.C+B.BAB.A+B.C + C.A+ C.B+ C.C). (A+B+C) Y= (A+AB+A·C+O+B·A+B·C + C-A+C-B+ 0000 C). (A+B+



AR

Product of Sum POS

(A+B). (A+B). (A+B)

AB	0	4
0	0	0
1	. 0	1

A	B	C	42
0	0	0	0
0	0	\	
0		0	0
0	1		(
1	0	0	0
1	0		1
1	1	0	
į	1		

30P

ABC+ ABC+ ABC+ ABC+ ABC

- ARCACRE
- = BC(A+A) + BC(A+A) + ABC

BC + BC + ABC CCB+B)+ ABC C+ ABC = (C+T). (C+AB) C+AB > AB+C (B+C), (B+C), (B+C) (B+C) (A+B+C). (A+B+C). (A+B+C) (A+B+C). (A+B+C). (A+B+C) B+C (A+B+C) AB+AC+BB+ BC+CB+CC = AB+ C[A+B+B+ 1] AB +C

A+ RB = A+B

