1 of 6 abcIF b'la literal: is 000 جد مزى: PT : ما 001 a, atb ST 182 2. 00 minterm! مزب تمام حوف ما Maxterm: = = = & F=a.b.c+abc+abc+abc $= m_1 + m_2 + m_4 + m_6$ Q= Zm(1,2,4,6) $F=(a+b+c)\cdot(a+b+c)\cdot(a+b+c)\cdot(a+b+c)$ = Mo·M3·M5. M7= TM (0,3,5,7)

نمائی تابع به صورت کی بعدع مینتیم ها ماکن ما کارم ها فایش میاردن می ماکن می ماکن می ماکن می ماکن می ماکن می ما

(canonical representation)

$$F = (a+b+c')(a+b+c).(a'+b+c).(a'+b+c)$$

 $F = M_1.M_2.M_4.M_6 => F = M_0.M_3.M_5.M_7$

$m_i = M_i$ minterm			Maxterm		
		term	علاست	term	سماره
0	000	XYZ	mo	2+4+2	Mo
1	001	x'y'Z	m	x+y+2	M
		n'y Z'	m_2	2+4+2	M2
		n.42	M3	X+Y+Z'	M3
4	100	2y'Z	m4	N+9+Z	M4
5	101	nyz	m5	2+4+2	M5
6	110	nyz	mb	11+5+2	M6
7	III	NyZ	m7	N+Y+Z	MZ

مر رو شال: F= A+BC ابه صرب معارف فاك دهيد

1) lomintelm \mathcal{E}^{3} . $A = A \cdot (B+B') = AB+AB = AB(C+C')+AB(C+C')$ = ABC+ABC'+ABC'+ABC' $= M_{2} + m_{6} + m_{5} + m_{4}$

$$BC = (A+A) \cdot BC = ABC + \overline{ABC} = M_5 + M_1$$

$$F = M_1 + M_4 + M_5 + M_5 + M_6 + M_7$$

$$F = CM(1,4,5,6,7) \qquad a+a=a$$

$$F = TM(0,2,3)$$

$$F = A+BC = (A+B) \cdot (A+C) = (A+B+C)(A+B+C)$$

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

$$= M_3 \cdot M_2 \cdot M_2 \cdot M_0 \qquad a\cdot a=a$$

$$= TTM(0,2,3)$$

$$F_1(a,b,c) = CM(2,3,6,7) = M_2 + M_3 + M_6 + M_7$$

$$= abc' + abc + abc' + abc$$

$$f_2(b,c,a) = CM(2,3,6,7)$$

$$= bca' + bca' + bca' + bca$$

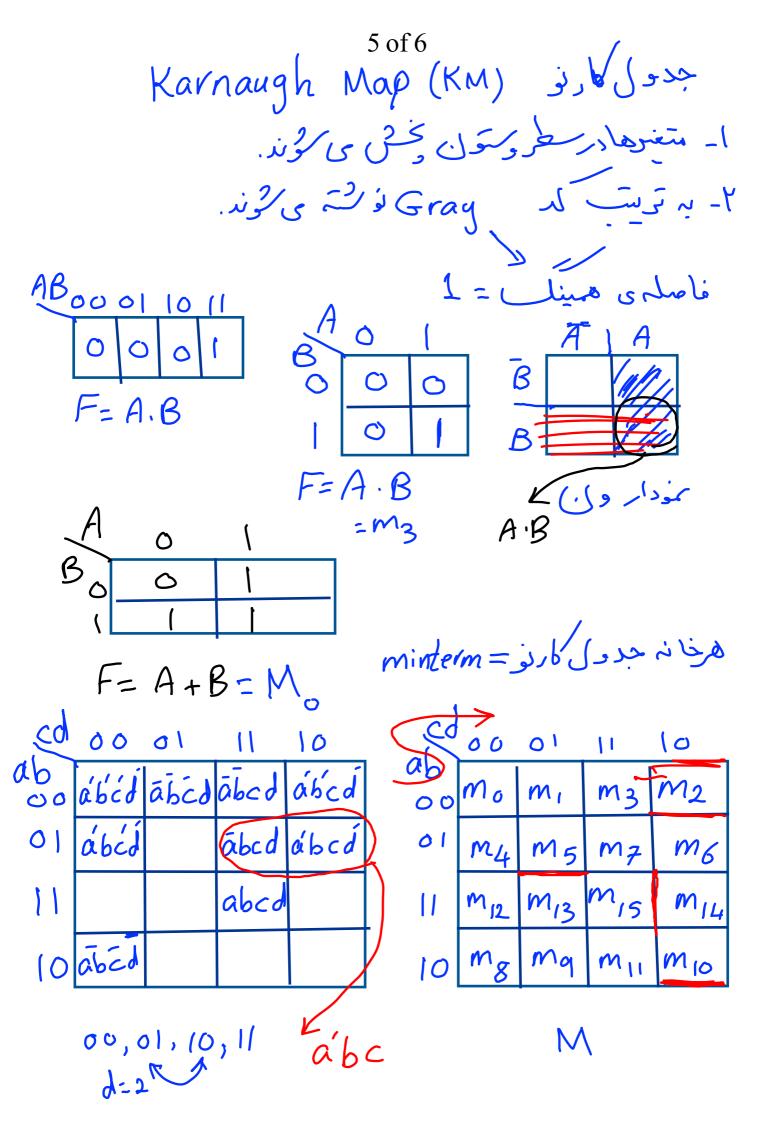
$$= a'b'c + abc' + abc' + abc'$$

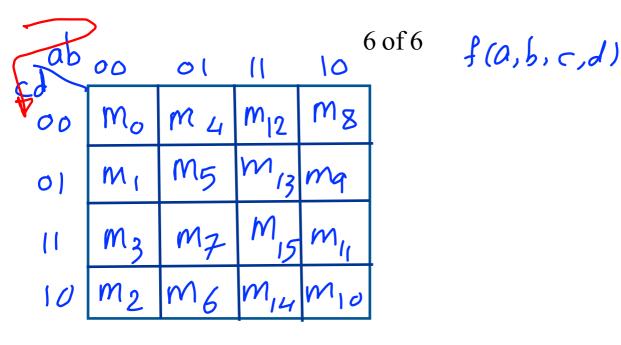
$$\begin{cases}
f(\chi_{1}, \chi_{2}, ..., \chi_{n}) + \overline{f}(\chi_{1}, \chi_{2}, ..., \chi_{n}) = 1 \\
f(\chi_{1}, \chi_{2}, ..., \chi_{n}) + \overline{f}(\chi_{1}, \chi_{2}, ..., \chi_{n}) = \sum_{i=1}^{n} m_{i} \\
\sum_{i} m_{i} = 1
\end{cases}$$

$$\prod_{i} M_{i} = 0$$

(Sum of Products) oPT (Sum of Products) oPT Sop ST (Sum of Products) oPT (Sum of Product

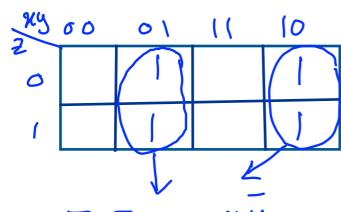
Product of Sums = POS





اس ساده سازی برمنای KM : فاصله مینگ = 1

ジャーリF= xyz+xyz+xyz+nyz とじ:りに



えらて+えりて=えりにた