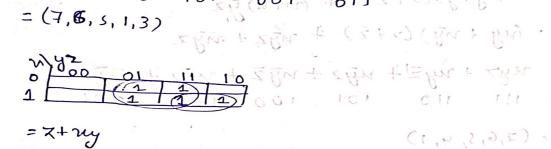


Ang 1) (a) => E, => myz + nyz + nyz + nyz + nyz

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		12	

(6) E1=> ryz + ryz



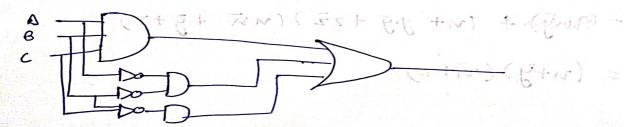
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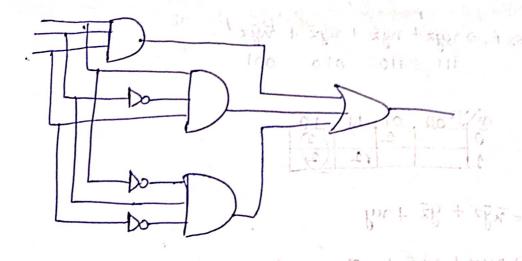
POS= 0(152

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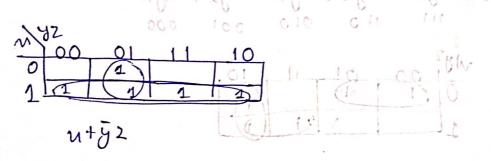
84 the Wateriff N+10-19 Y= ABC + AZ + BZdNO+ (DI) -



6) y= ABC + ABC + ABC



And 3:- 
$$F = n(y+\bar{y})(z+\bar{z}) + (n+\bar{u})\bar{y}z$$
  
=  $(ny+n\bar{y})(z+\bar{z}) + n\bar{y}z + n\bar{y}z$   
=  $nyz + ny\bar{z} + n\bar{y}z + n\bar{y}z + n\bar{y}z + n\bar{y}z$   
=  $nyz + n\bar{y}z + n\bar{y}z + n\bar{y}z + n\bar{y}z + n\bar{y}z + n\bar{y}z$   
=  $nyz + n\bar{y}z + n\bar{y}z + n\bar{y}z + n\bar{y}z + n\bar{y}z + n\bar{y}z + n\bar{y}z$ 



POS = 
$$\chi + \bar{y}z$$
  
By the property  $n + (a \cdot 6)$   
=  $(na) + (nb)^{11} + 3b + 39a + 4$   
=  $(n+\bar{y}) + (n+\bar{y} + z\bar{z}) (n\bar{x} + \bar{y} + z\bar{z})$   
=  $(n+\bar{y}) + (n+z)$ 

2

 $R = \{(1,1), (1,3), (1,4), (1,6), (1,9), (2,4), (2,6), (2,3), (3,6), (3,4), (3,3), (4,4), (6,6), (9,9)\}$ 

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gt does not satisfy lattice identity.

Ans: - The order of an element in a group is smallest positive power of element which gives you the identity doment.

AM 6 ! -

+6	10		a	2	4	50	
0	0	1	d	3	4	5	
1	J	2	3	4	5	0	(F
9	9	3	4	5	0		
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51	5	0	1	2	36 4		
						1	Y

is divisor of every subgroup of a finite group.

m = order of group

n= order of dubgroup

K = finite number.

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And = 6): - A subgroup 11 of aroup a is said to be a normal subgroup of a inj иа = ач for au a & Cu, i.e, lest coset = sight coset. My -9):-Hun team ( 2 8 8 8 1) ( 2 8 8 1) - 130 A menterm of n vociable is a product of n literals in which each voicable appears exactly once up either type of complimented form but not both. Hazintermostar soc framo-non o od 1 A maxterin of n variable som a sum of his Variables literals in which each variable appeared executly once in either touce or compliments form but not both. PAd = DAG . aub = bva AND -10):-+ Auson activis land E(4,y,Z) = 4(yZ)

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$$S' = \begin{pmatrix} 1 & 2 & 3 & 4 & 5 \\ 3 & 1 &$$

(b) (i) 
$$2xe = 1$$
  
 $e = 4$ 

(C). 
$$2x^{2} = 9$$
  
 $2x^{2} = 4$   
 $2x^{2} = 6$   
 $2x^{2} = 1$   
 $2x^{2} = 3$   
 $2x^{2} = 5$ 

Subgroup generate by 
$$3 = \{2, 4, 6, 1, 3, 5\}$$
  
Subgroup generate by  $3 = \{3, 6, 2, 5, 1, 4\}$ 

Quest the Express 
$$E(x,y,z) = x(\overline{y}\overline{z})$$
 find  $Csop.$  and  $pos$ 

$$= x(\overline{y}\overline{z})$$

- ~ x (y+ \(\frac{7}{2}\)
- =  $xy + x\overline{z}$
- =  $xy(z+\overline{z}) + x(y+\overline{y})\overline{z}$
- =  $xyz + xy\overline{z} + xy\overline{z} + xy\overline{z} + xy\overline{z}$  (Csop)

$$(x+y+z)$$
.  $(x+y+\overline{z})$ .  $(x+y+\overline{z})$ .  $(x+\overline{y}+\overline{z})$   $(pos)$ .

Prove that

an(buc) = (anb)u(anc)

NA HARMAN

and  $\leq a - 0$ and  $\leq b \wedge (b \vee c) - 3$ and  $\leq a - 4$ and  $\leq c \leq b \vee c - 6$ and  $\leq a \wedge (b \vee c) - 6$ (and)  $\vee (anc) \leq a \wedge (b \vee c)$ and  $\wedge (b \vee c) \leq a$ henced proved.