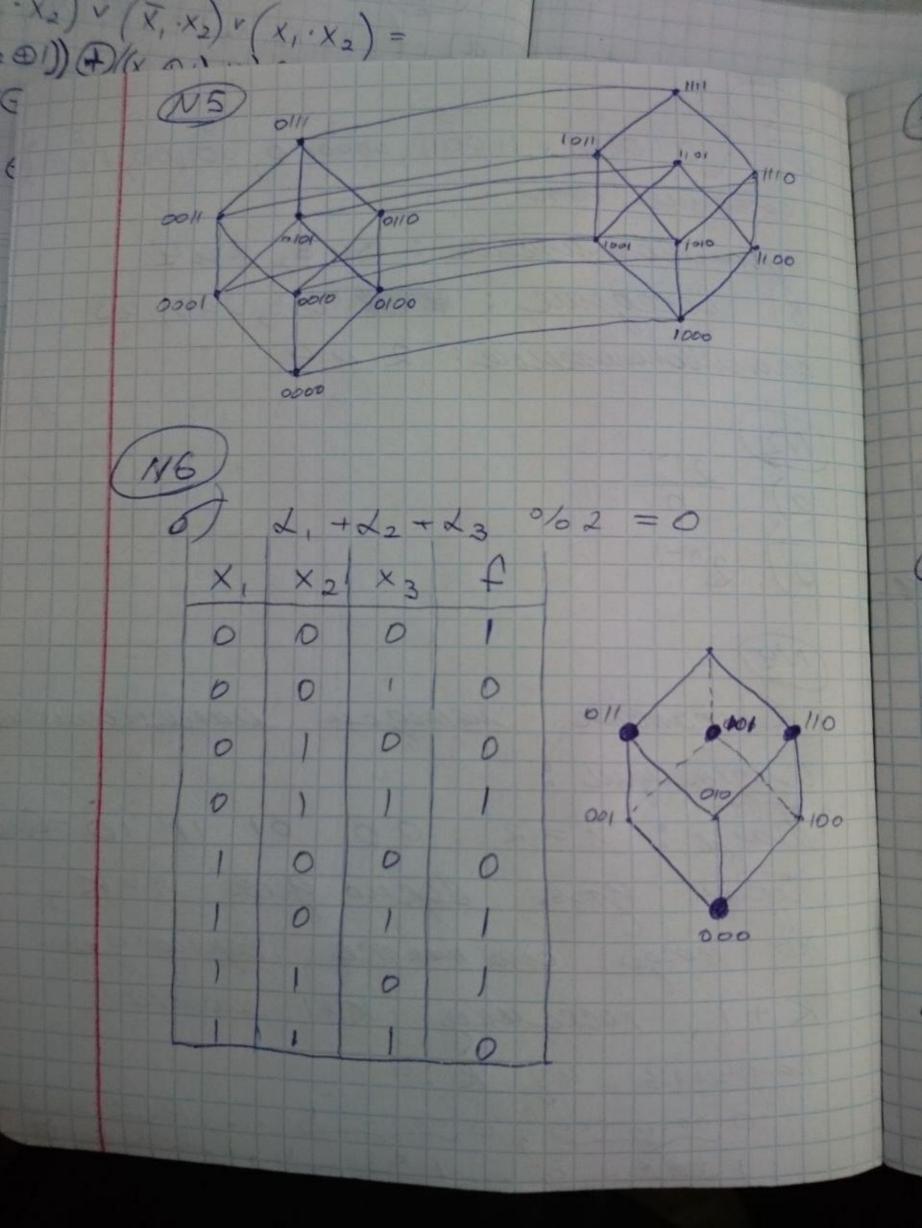
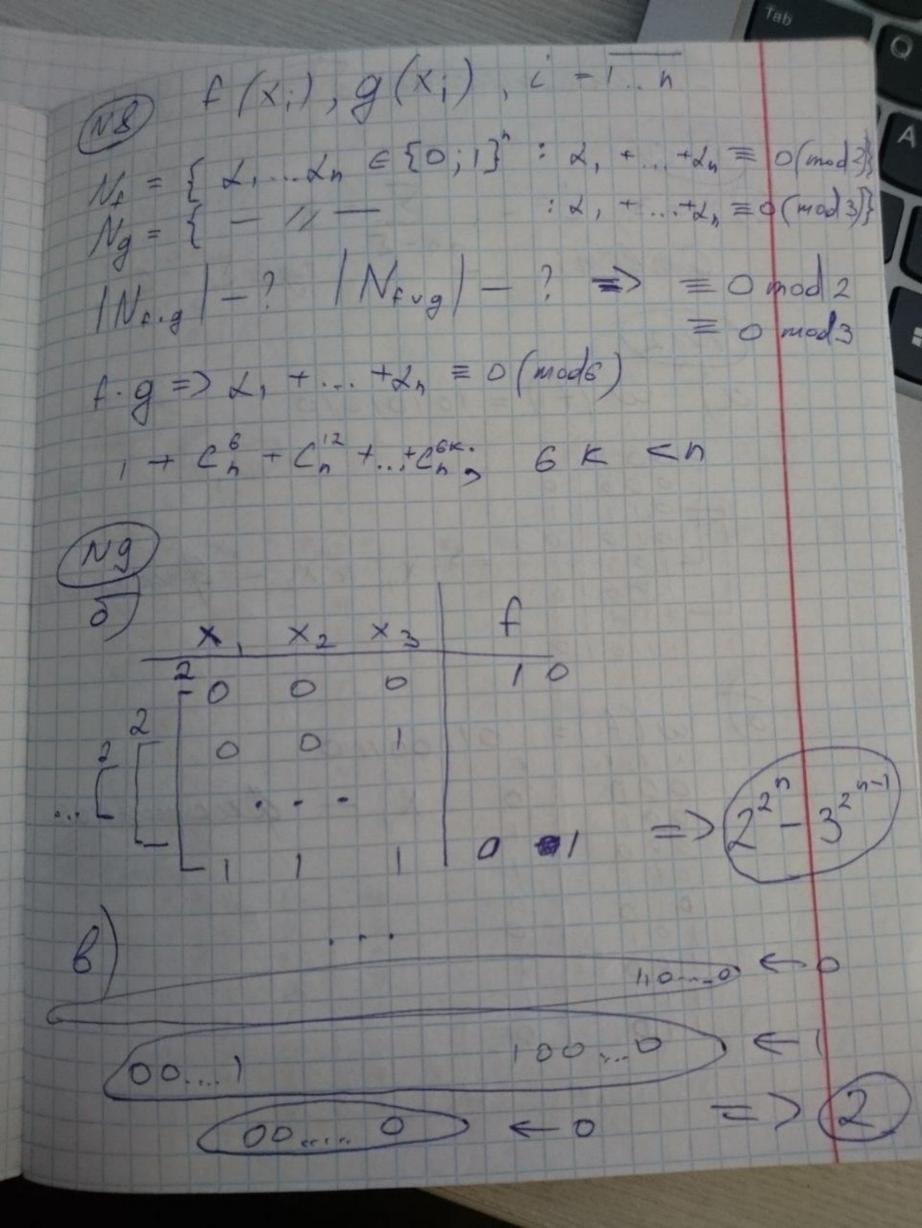
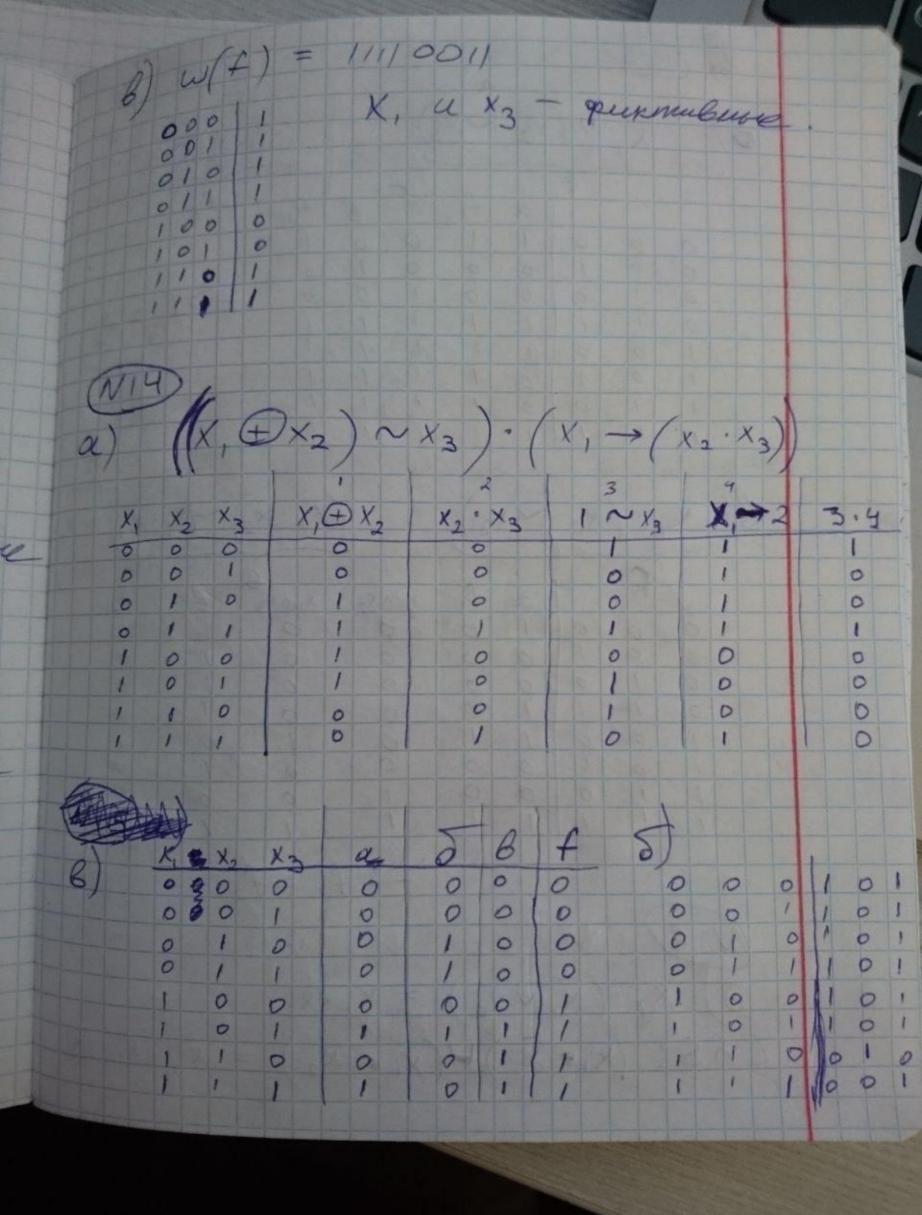
(N) (0/0/01, 1/00/1,000000, 00/100, 11/11) cocequie : Hem Manuboharoneribe: 345, 244 b) cocequue: # 143, 243, 143 противоположение: 2 и 4  $\binom{N2}{a}$   $2^{n-1}$ 07 2 1-1 NY) Доронсем методом мажемотическа ungenseque : barse: n=2.00 01 11 10-legus Пусть утв. ворно дия п = к но могда оно макте верно для K+1, rockousky K+1 monero honymans uz K: 000---000, 000.-- 1 ..., 0,000----... 1 Koo ... 1, 9





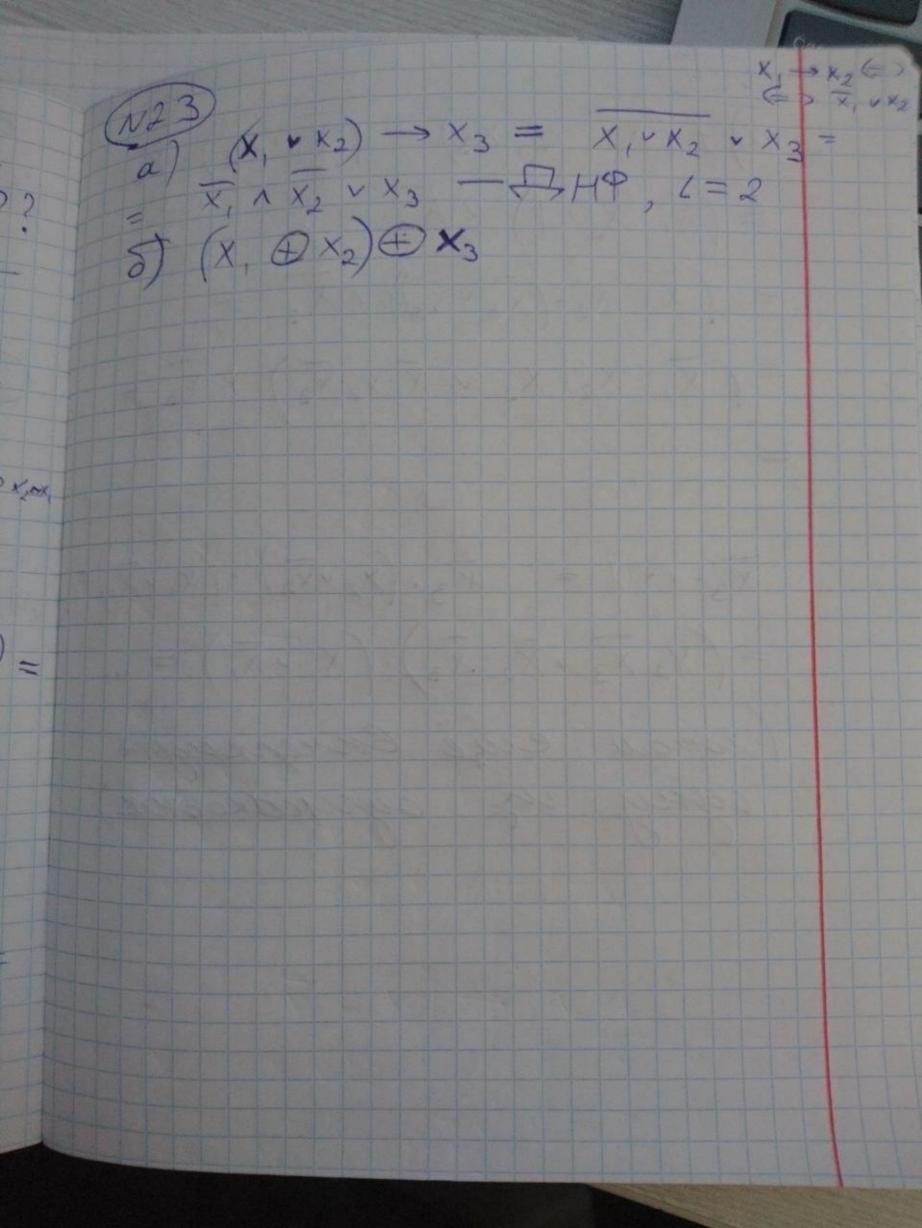
· X) V (V.X) V/V.V 2) anaworever S). S) n=3, i=2,  $\Sigma=3$ Ombem:  $2^{n-\Sigma}$ ,  $2ge \Sigma - C_n^i$ (N12) a) w (f) = 10101010 => X, u X2 - Gerenobuse w (f) = 01100110 Х, - фиктивная 001 100



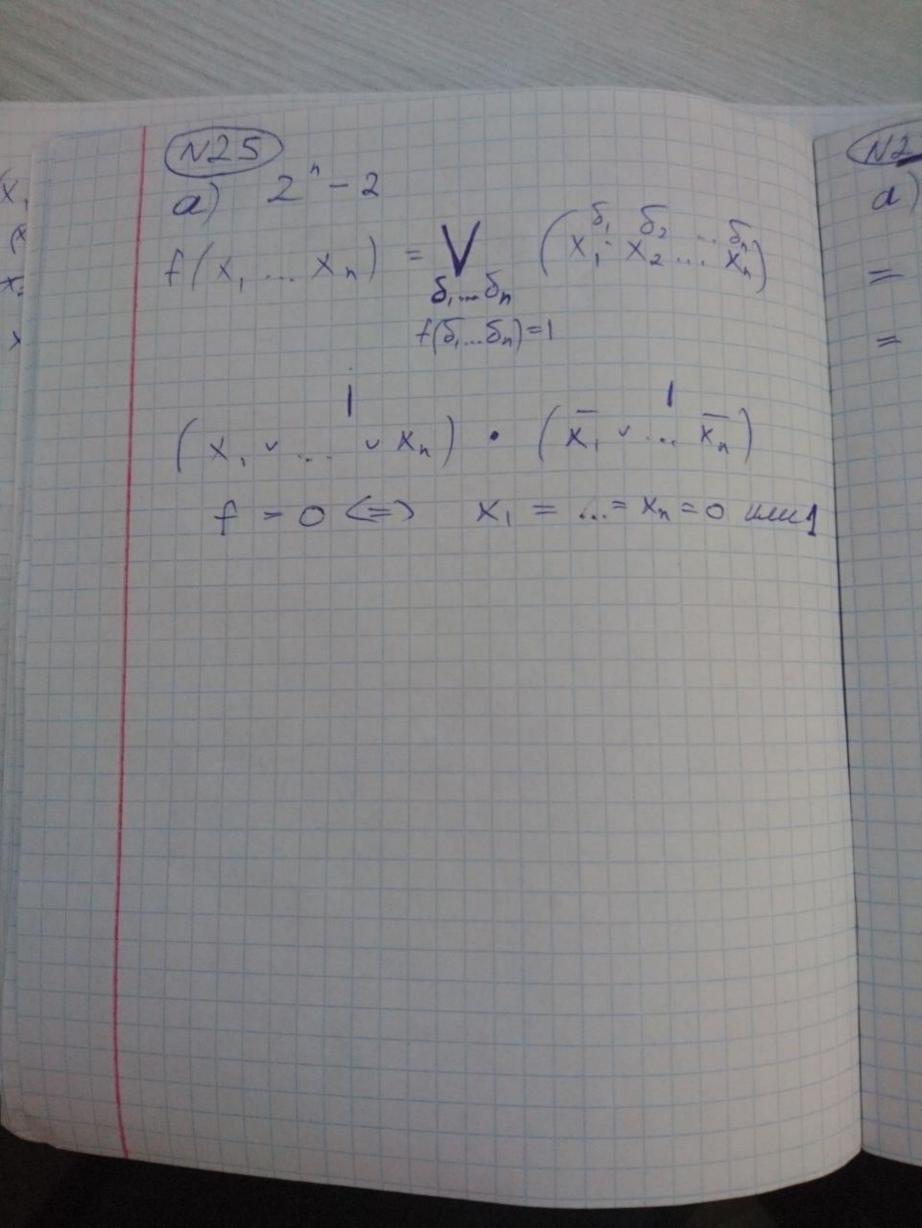
· (X2~X3) (X, K, AX2 5) x, ·(x, vx2) = LAS: (x, , x,) ~ (x, , x2)

B) X, V(X, -X2) = X, VX2. (15 = (x, vx,) · (x, vx2) = x, vx2 2)  $(X_1 \cdot X_2 \rightarrow X_1) \rightarrow X_2 = X_1 \rightarrow X_2$ ( N 3) 8) X, X2 ... Xn = X, VX2 V ... VXn по индукими, отевидно B) x, vx2 v... x, = (x, 01) · (x, 01) · (x, 01) · ... ( )  $MHU:X, = (x, \oplus 1) \oplus 1$ 0 = 1 1 - Bepulo.  $X, \vee X_2 = (X, \oplus 1) \cdot (X_2 \oplus 1) \oplus 1$  $A = X_1 \vee \dots \vee X_{n-1} = (X_n \oplus 1) \cdot ( ) \cdot \dots \vee (X_n \oplus 1) \cdot ( )$  $A \vee X_n = A \cdot (X_n \oplus 1) \boxtimes$ (N18) 8) (X, VX2) -> (X, VX3)  $X_1 \cup X_2 = X_1 \cup X_2$   $(\overline{X}, \vee X_2) \vee (\overline{X}_2 \rightarrow \overline{X}_1) = X_1 \cup X_2 \vee X_3 \vee X_3 = (\overline{X}_1 \cdot \overline{X}_2) \vee (\overline{X}_2 \cdot \overline{X}_1) = X_1 \cup X_2 \vee X_3 \vee X_3 = (\overline{X}_1 \cdot \overline{X}_2) \vee (\overline{X}_2 \cdot \overline{X}_1) = X_1 \cup X_2 \vee X_3 \vee X_3 = (\overline{X}_1 \cdot \overline{X}_2) \vee (\overline{X}_2 \cdot \overline{X}_1) = X_1 \cup X_2 \vee X_3 \vee X_3 \vee X_3 = (\overline{X}_1 \cdot \overline{X}_2) \vee (\overline{X}_2 \cdot \overline{X}_1) = X_1 \cup X_2 \vee X_3 \vee X_3 \vee X_3 = (\overline{X}_1 \cdot \overline{X}_2) \vee (\overline{X}_2 \cdot \overline{X}_1) = X_1 \cup X_2 \vee X_3 \vee X_3 \vee X_3 = (\overline{X}_1 \cdot \overline{X}_2) \vee (\overline{X}_2 \cdot \overline{X}_1) = X_1 \cup X_2 \vee X_3 \vee X_3$ 

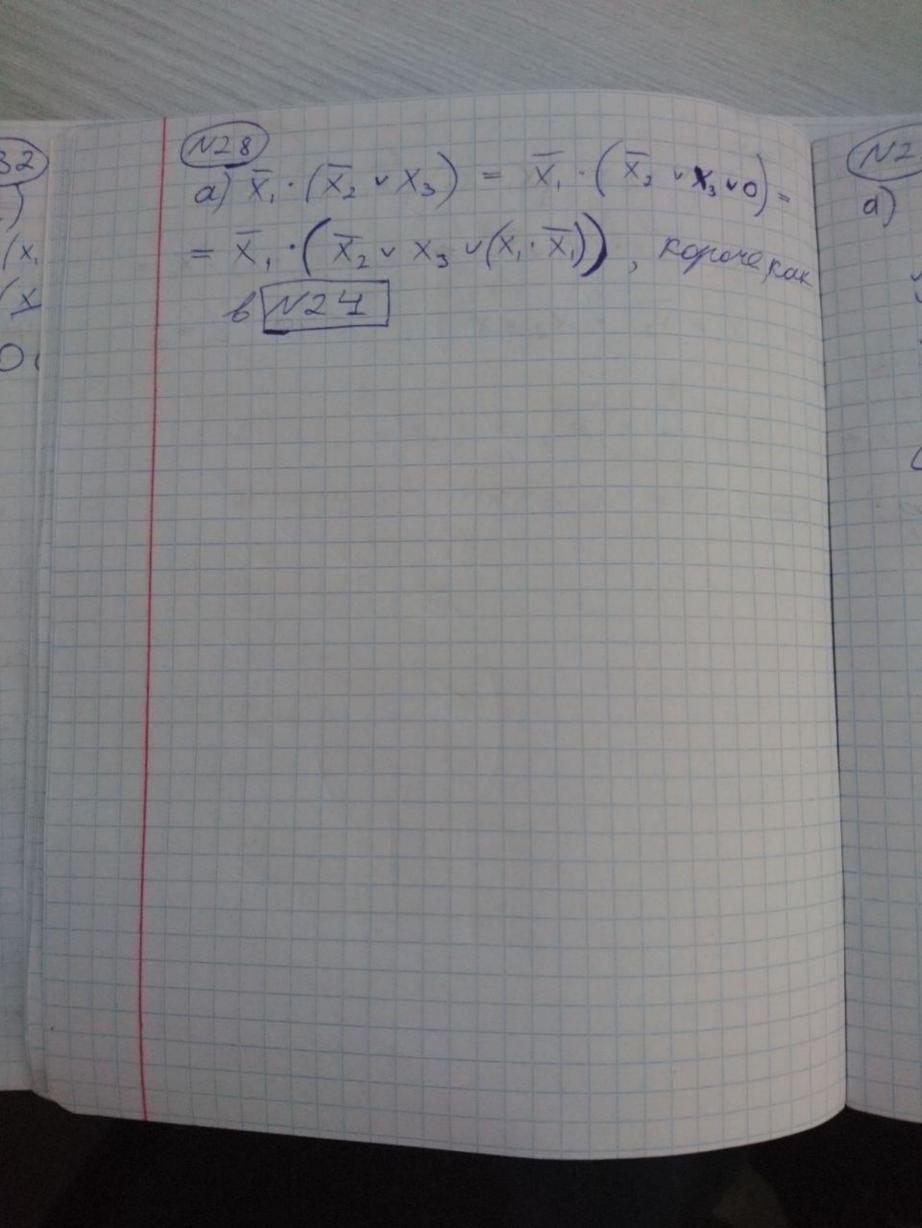
(N19) JX,~(X2~(x,vx2)) = (x2~X1) v (X2~X2) E) VM  $= \chi_1 \sim (\chi_2 \sim \chi_1) = \chi_1 \sim \chi_2$  $B)\left(\left(X, \oplus X_{2}\right) \rightarrow \left(\overline{X}, \sqrt{X_{3}}\right)\right) V\left(X_{1} \rightarrow \overline{X_{3}}\right) =$ 2) (( X, \*x,) \ (X, \ X, ) \ ( \ - 1)-)=  $= (X_1 \cdot X_2) \downarrow (X_1 \cdot X_2) = X_1 \cdot X_2.$ 



-X2) V (X. X.) V ( (N24) a) f(x,, x2, x3) = (X, x2) · X3= = (X, X2 · 1) V X3 = = (X, X2 · (X3 · X3)) · X3 = = (X, X2 · X3 V X, X2 ×3) V X3 = X3.1.1= X3.(x2 vx2).(x, vx,)=  $= (X_2 \overline{X_3} \vee \overline{X_2} \cdot \overline{X_3}) \cdot (X_1 \vee \overline{X_1}) = \dots$ ogny us ogrindrobur



 $(X_1, X_2)$   $(X_1, X_2)$   $(X_1, X_2)$  = = X, X, · X, · X2 + · X2 X2 · X2 · X, = = X, V X2 · X2 · X, , KHP, C=2



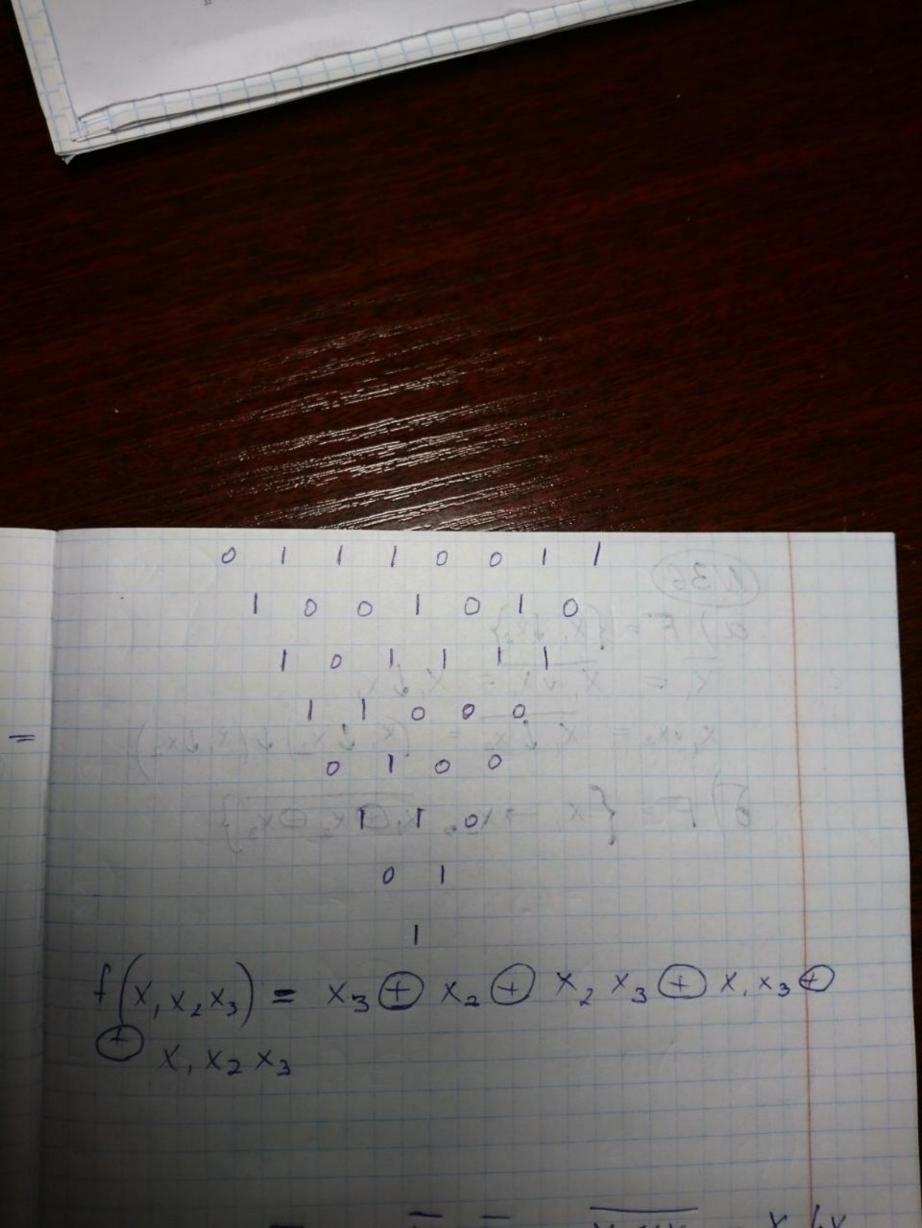
(a+6)(Ca) a) + (X, X2, X3) = (X, 1X2) 1X3 =  $= (1 \oplus (x_1 \cdot x_2)) \downarrow x_3 = 1 \oplus (1 \oplus (x_1 \cdot x_2)) \oplus x_3 \oplus$   $\oplus (1 \oplus (x_1 \cdot x_2)) \cdot x_3 = 1 \oplus (1 \oplus (x_1 \cdot x_2)) \oplus x_3 \oplus$   $\oplus x_3 \oplus x_3 \cdot 1 \oplus x_1 x_2 x_3 = 0 \oplus x_1 x_2 \oplus x_1 x_2 x_3$  $\int (X_1 \vee X_2) \rightarrow ((X_3 \mid X_1) \cdot X_2) =$  $= | \bigoplus (X_1 \vee X_2) \bigoplus (X_1 \vee X_2) \cdot (X_3 | X_1) \cdot X_2 =$  $= 1 \oplus (X_1 \vee X_2) \oplus ((X_1 \vee X_2) \cdot (1 \oplus (X_1 \cdot X_3)) \cdot X_2) =$  $= 1 \oplus \left( X, \vee X_2 \right) \oplus \left( (X, \vee X_2) \cdot \left( 1 \cdot X_2 \oplus X, \cdot X_2 \cdot X_3 \right) \right) =$  $= 1 \oplus (x_1 \vee x_2) \oplus (x_1 \vee x_2) \cdot x_2 \oplus (x_1 \vee x_2) \cdot x_1 \times x_2 \times_3) =$ = 10 (x, vx2) 0 ( \*x, x2 vx2 x2 + x, x2 x3) = = 1 ( X, VX2 ( X, X2) ( X, X2 X3 = (1) X/2 (1) X-1 X2 (1) X1 X2 X3 = 1 + X, X2 + X, X2 X3

$$(N32)$$

$$(X_1 \cdot X_2) \vee (X_1 \cdot X_2) \vee (X_1 \cdot X_2) =$$

$$= (X_1 \cdot (X_2 \oplus 1)) \oplus ((X_1 \oplus 1) \cdot X_2) \oplus (X_1 \cdot X_2) =$$

$$= (X_1 \cdot X_2 \oplus X_1 \oplus X_2) \oplus (X_1 \cdot X_2 \oplus X_2) \oplus (X_1 \cdot X_2) \oplus (X_1 \cdot X_2 \oplus X_2) \oplus (X_1 \cdot X_2) \oplus (X_1$$



$$\begin{array}{c}
(N36) \\
(X_1 \cup X_2, \overline{X_1}) \\
(X_1 \times X_2 = \overline{X_1}) \\
(X_1 \times X_2 =$$

a)  $f = (x_1 \cdot x_2) \oplus (x_1 \cdot x_3) \oplus (x_2 \cdot x_3)$ f\* = (x, vx2)~ (x, vx3)~ (x2 vx3). a) X, 4X2 JX (DX2 DX3 — ga, cu .488 + \* = X, · Xa B) (X, VX2 VX3) · X4 V (X, X2 · X3) + = (X, VX2 VX3) · X + V (X, · X2 · X3) !=  $= \overline{X_1} \overline{X_4} v X_2 \overline{X_4} v X_3 \overline{X_4} v \overline{X_1} X_2 \overline{X_3} = \overline{X_1} \overline{X_4} \circ \overline{X_2} \overline{X_4} \circ \overline{X_3} \overline{X_4} \circ \overline{X_1} \overline{X_2} \overline{X_2}$ = (X, v(X)) · (X, v(X)) · (X, v(X)) = X = f. => comaglouismblemar. 1- Z) (x, -> x2) (X2 -> x3) (X2 -> x1).  $f^* = (\overline{x}_1 \rightarrow \overline{x}_2) \oplus (\overline{x}_2 \rightarrow \overline{x}_3) \oplus (\overline{x}_2 \rightarrow \overline{x}_1) = 6$  $= (\overline{X}_1 \rightarrow \overline{X}_2) \sim (\overline{X}_2 \rightarrow \overline{X}_3) \sim (\overline{X}_2 \rightarrow \overline{X}_1) = (\overline{X}_1 \vee \overline{X}_2) \sim$ ~ (x2 v x3)~ (x2 v x1) = ...