- (68) ga ce goranne ve (AUB) n C = (A nc) U (Bnc)
- (≤) Hera A, B, C ca rypou 3BONHU MHOHHECTBO. Helia X E (A UB) nc e mpous. enement.
 - =) X E AUB N X E C.

Възмонни са сперните 2 случаи.

- 1, XEA => XEANC HO ANCE (ANC) V (BNC) =) x = (A n c) U (B nc)
- 9. X dA => X € B => TON KATO X € C => X € B∩C
 - c (Anc) u (Bnc)
 - (2) Heka y & (A nc) U (Bnc) e repoussonet enement
 - => y € (Anc) nm y € (Bnc)
 - 1 CM y & A AC => y & A u y & C (AUB) nc AUB
 - y ∈ BOC =) y ∈ B u y ∈ C y= (AUB) nc

3agaru sa pewabake

69) golowhere us AX(B)() = (AXB) (AXC)

Here A, B, C Ca Exponsion Hy HADHECTBO.

С Неше х е произволно цисло което X & A X (B) ()

TOBO OBHOLABO LE X & B GENOPTHO TO MOUS.

HOI MHBOTO A C BIC

Hera X € (a,b), ToraBor a ∈ A n b € B/C

WOH b∈BC. TO b∈B n b €C

OT Tyk unote 4e att 11 b&B

=> x=(a,b) & A×B

Muche u 4e OCER n b&C TOTOIBE

X=(a,b) & AXC (3augoro aro bec Torata pay

Tota unere

X ∈ (A × B) \ (A × c) ⊆ □

2 Hence y & typou3BONHO. Hence y & (A NB) J(ANC)

y E AXB & y & AXC y = (α', b') =) α' ε A b' ε B

Thu KOTO y & A (geneu a' & A) u y & C

TO y & AXC

a'eA b'EB b'&C

>) y & A x (BIC) ?

OT OKCUMOMOTO 30 0644 à gopo30HO.

) polatiete 4e A (BUC) = (A IC) \ (BIC) C Heno X E A (BUC) XEA & X & B Wan X & C X EA EX # C _ & X # B | # C X & B/c X E AIC X € (A/c) \(B)c) 2 Heme x ∈ (A(C) \ (B(C) XeAlc & x ≠ B/C XEARXEC EXTB EXTC XEA & X & B X & C XEA & X & BUC

Heta k e peno 4,451 to Hag P(IN) × IN oupegene tre Upe 3

(A,a) R (B,b) = A,B = IN & a, b & N & 8 [A C B) V (A = B & a = b)]

goramere Le R e 4.H. B P(IN) XIN

ACB 03Ha40BQ 48 ASB UA &B Re Hap P(N) XN T.4. R E (P(N) XN) X(P(N)XN)

Peop rexcusitoCT Hap P(N)XW.

A, a € P(IN) X IN ACINV & a EM $A CA & (\alpha \leq \alpha A = A)$ (A,a) R (A,a)

AHTUCUKETPHYHOLT HEKA MNVCATY URV NVR4. Toraba mothethe Re Hap P(IIX) XIN TO JA,B SIN, $a,b \in \mathbb{N}$ 7.4. M = (A,a) V = (B,b) ke TO (A,a) R (B,b) R (A,a) B CUMO e CREPH

Морерица от импликач, пл.

 $\frac{(A, 0) R (B, b)}{A, B \subseteq N } \underbrace{R (B, b) R (A, 0)}_{A, B \subseteq N } \underbrace{A \subseteq B }_{A \subseteq B } \underbrace{A \subseteq$ (B=A & b=a)1

A, B C IN & a, b & W & [a] V (11) V (11) V (11) 7 F 6 ge To: (I) & (A C B) & (B C A) 115 (ACB& B=A& b=@) 1 5 (A=B 8 95b 8 BCA) N = B & a. = b & B = A & b = a) TOTOBO: I 十 ACB & B=A & b = a ACB & B CA A + B & B = A ACB & BCA & A + B A = B & 02 = b A=B & A # B A=B & Q=6 A=B & O = 6 & B = A & 6 59 III A=B & W < b & B < A A:B & (q < 6 8 6 = 6) A = B & B & A A=B&o=b OATUCU A=B & 0 = b (Mg. IVIIVIII VIV A=B Q=b(A,Q) = (B,b) attrucm. U=1 TPAHBUTUBHOCT HELLO UIVIU CO T.4. URV & VRW U=(A,D) V=(B,b) W=(C,C) 2C1 ACB&B=C&bec ACB & B=C I CA. S ACB & BCC ACC VA=C 805C

upgronne sue 40 (91)

III CN.

IV. ch.

B ect. 44 cao. Harepete 6pos Ha pewethusta

$$||X_1 + X_2 + X_3 = 15||$$

 $||X_1 + X_2 + X_3 = 15||$
 $||X_2 = 3|| = ||X_2 - 3|| > 0$

$$A = 0.0203 + 10^3 | 0.+02+03=12$$

 $B = b_1b_2b_3 + 10^3 | b_1+b_2+b_3=15$

$$||X_1 + X_2 + X_3 + X_4 = 100|$$

 $||X_1 = 10|$
 $||X_2 = 15|$
 $||X_4 = 25|$

$$\chi_2 \gg 15$$

Hera A, B, C ca mpousBorth HHOHECTBO

Hera (A MB) UC = A M(BUC) C

Here x (произволен еленент) e (ANB)UC = ANBUC)

Toraba (X & A A X & B) HM X & C

XEA 1 XEB W XEC $x \in A & (x \in B^{\vee C})$ =) X E A O B U C

TOBA e N3M2nHetto BUHATU.

use governen re CEA.

Hence $x \in C = 7 \times \in (A \cap B) \cup C' = A \cap (B \cup C)$

=) x & A => (& A

2 Hem C⊆A use gokoHen ofpathata rocoto Hena X = (A (1B) UC XE ANB VXEC 1 CA. X & A OB = 7 X & A 1 X & B =) X & Ange 2 CA X & ANB=>X & C => X & ANBUC) 2 Hello X & A N(BUC) => X & A ^ X & BUC) TOU MOTO AND TO X & AND N XEB V KEC

THORME CEATORABO X & (ANB) UC.