```
a) (Anc) U(BAD) = (AUB) n(CUD)
      (Anc) V(Bna) = [(Anc) UB] n[(Anc) U D] = [BU(Anc)]n[OU(And)
        = [(AUB) n (BUC)] n[(UD) n (AUD)] = (AUB) n(CUD)
       => (Anc) U(BnD) = (AUB) n(CUD)
    SI(BC) (BIR) CACC
(BNE) (RNA) CANE
    (BAC) (BAC) = (BAC)A(BAA) = (BAC)A(AUB) =
        = Ensa(AUB) = En[(Ans)V(BnB)] = (Ans) ne a Ane
    = > (B \setminus C) \setminus (B \setminus A) \subset A \setminus C
(B \setminus C) \setminus (B \setminus A) \subset A \setminus C
(B \setminus C) \setminus (B \setminus C) \setminus (B \setminus C)
A \cap C \subset (A \cap B) \cup (B \cap C)
   (ANB) U(BNC) = [(ANB) UB] N[ E V(ANB)] =
      = [(BUB) n(AUB)]n[EU(ANB)] = (AUB) n[EV(ANB)] =>
      => ANT = (AUBIN (TOU (ANT)) 4.7.0
   DOKASAB: ANB = AN (ANB)
  D-60: A\(A\B) = 
   D-60: (((A) = ((S)A) = S)(S)A) = S)(S)A) = Sn(S)A) =
                      = Sn(SUA) = (SnS) V(AnS) = AnS = A
 a) Donasais: A (B) C) = (A \ B) V(Anc)
D-60: neb. rack: A (Bnc) = AA(BNC) = AA(BVC) =

(AnB)U(Anc)

npab. rack: (A B) U(Anc) = (AnE) U(Anc) = pab-60 Gepulo

4.7.0.
O DOKASAB: (ANB) C = (ANC) (BNC)
 D-60: reb. racis: (A/B) C = (AnB) nc
                 npab. 4ac3: (A)C'\(B)C) = (Ane)n(Bne) = Anen(Buc) = 45)
= An[(EnB)vcene]] = An(EnB)
                                     => pab. 60 Beputo
                                                                                                                                         4.7.0.
```

```
D-B. A (BC) = (A B) UC Repus npu A = C 4 netepus npu C A;
D-60: reb. 4acs: A (Brc) = An(Brc) = An(BUC) =
                        = (ANB) U(ANC)
      mpab. rack: (ANB)UC = (ANB)UC
· Mpu A>C uneen: AnC=C=> neb. yac3: (AnB) V (AnC) =
= (AnB) V C=> nonyyunu npabyo rac3 => pab-la lepuo eenu
A>C
· ÉCLIU C A + Ø TO PONYACTER TAK, USO LO MIN-BE C CETS MEKAN

4acis Kosopar Mesicus bue Mu-ba A => A n C + C WO B

UCZODUOM pab-be 4acis (N n B) cobradaws => mysicus pabencies

An C = C 450 nebosmosicus npu Damien yenobicus => pab-bo mebepus
  ecru CXN + 0
  Buteraet in us ANB=C, uso A=BUC
 Попробуем подобав компринер:
     A= {1,29 : B= {29 => A\B= {19=C}=> Bepuro
BUC = {23 U {13 = {1,23 = A
  • A = \{3\}; B = \{3, 4\} \Rightarrow A \setminus B = \emptyset = C \} \Rightarrow He besteraes
SPI.G.
BUTTERALET MU 43 A = BUC, 450 A B = C?
 Попробуем поборать камприример:
  a) D-B me beproce AU(B(C) = (AVB) (AVC)
D-60: Neb. Yacis: AU(B\C) = AU(Bn(c) = (AUB)n(AU(c))
npa6. Yacis: (AUB) (AUC) = (AUB)n(CAn(c))
  Oyelfour, (AUB) n(AU(C) + (AUB) n((An(C))
Pych A= {1,23 B=C= 0 => BC= 0 => AUD= {1,29 }=>
AUB= {1,23 AUC= (1,23 => (AUB) (AUC) = 0 = (1,29 )=>
     => AU(B(C) = {1,2} + Ø = (AUB) (AUC) 4.70.
```

8) D-B websproen  $A \setminus (RUC) = (A \setminus B)U(A \setminus C)$ Pych  $A = \{1,2\}: B = \{1\}; C = \emptyset$   $A \setminus (BUC) = \{1,2\} \setminus \{1\} \cup \emptyset\} = \{1,2\} \setminus \{1\} = \{2\} = \{2\}$ (ANB)U(ANC) = (1,23 \ 113) U(1,23 \ 0) = 80/2 (200) -> A (BUC) = {2} + {1,2} = (ANB)U(ANC) 4.7.0. 3º1.9
a) AnBac D) (AnB) V(Anc) V(Bac) в) Попучит из б) путём вычитамия эления в из пересе-чения вых Зёх пи-в (ANB) U(ANC) U(BNC) - (ANBNC) 2) ÉCRU MERUTE 31-7 DE A TO ME GRANT UTO DU É BU E C. ]=>
ECRU DE (ARB), TO ME GRANT UTO DE C

=> RONGUARM ARBAC T) 40061 REA us x&C u x&B ugueno unoso! AN (BUC)
Anarozugno One mu-6 B u C => => nongraen [A\(BUC)]U[B\(AUC)]U[C\(AUB)]. D-B: VAK VBK CV (AK BK) D-bo: Ryen x & (VAx \ VBx) <=> ]k: x & Ax, up x & Bx. Toron uneers: 3k: xeAx, x & Bx => x & V (Ax Bx) Ppumep, renushibarougue, no = nensee sameurs na = :

Ny cr k = 2.

A1 = {2,33 \ B2 = {3,5} \ J= (A1 VA2) \ (B1 VB2) =

A2 = {3,5} \ B2 = {2,3} \ J= ({2,3} \ V \ 2,3}) \ ({3,5} \ V \ 2,3}) = (A, B,) U(A2 B2) = ({2,33 \ {3,53}) V ({15,53 \ {2,33}) = {2,33 \ (B, UB2)} D-B: U(nAkn) C n(VAkn) O-lew: Pych  $x \in V(Nd_{Kn}) \Rightarrow no onp <math>\exists k : x \in Nd_{Kn} \Rightarrow no onp \exists k : x \in$ - (or variable) U (or variable)

501.12 a) D-B: eem Bn = UAi, TO UAn = UBn D-lo: Donycrem, uso menun x e VAn, sorda no ons. umen; In: xe An, sorda In: xe Bn = x x e 0 Bn;  $2i : x \in Ai \Rightarrow x \in Ai$   $2i : x \in Ai \Rightarrow x \in Ai$   $2i : x \in Ai \Rightarrow x \in Ai$   $2i : x \in Ai \Rightarrow x \in Ai$ O-lo: Pycz ae ñ dn => no ong: ae dn tn => a e Cn =>
=> ae ñ di tn = = > ae ñ Cn; ach Cn => ac Cn + n, Ho Cn = ndi => ac hdi +n => D-60: lim An = 1 U Ak; lim = U 1 Ak

Now how helken => ae Ai Vi => x e NAi NAK C U NAK = Cim AK (1) lim dn = 1 U AK CVAK (3) No sane your 1.3: lim An a lim An (2) => uneen nAnclim Anclim Anclim AncluAn 4.T.D. • Пример, показывающий шевозможеност замесь, с" на "= ": Rycos A, = [25; Az, Az, ..., An = {1}, {1,3}, {1}, ... => => san= 113 eeu nz u n= 2k ke Z jan=11,33 eeu nz u n= 2k+1, keZ Тогда попучаен: « ПАп = А. ПАL П. .. ПАп = 229 п г 13 п г. .. п : · lim An = V n An = V (An N An+1 N An+2 N An+2 N ...) = = (A, n A2 n d3 n d4 n ...) V (A2 n A3 n d4 n ...) U ... = Ø U { 1} U { 1} U ... = { 1} · lim An = NUAx = N (AnVAn+1 VAn+2 Van+2 V...) = = (d, VA= VA= VA+ V...) n (d= VA= VA+ V...) n ... = = 21,2,390 21,39 0 21,39 0 ... = 21,39 · Udn = A, Vd2 Vd3 V... = {1,2,39 Town uneen: 1 An = & c lim An = {13c lim = {1,3} < U An = {1,2,3}

 $\frac{\partial P(1)}{\partial n} \subset X \text{ Quel } n \geq 1 \quad D-3: \quad a) \times \left(\lim_{n \to \infty} d_n = \lim_{n \to \infty} (X \setminus d_n) \right)$   $D-D: \quad a) \times \left(\lim_{n \to \infty} d_n = \lim_{n \to \infty} (X \setminus d_n) \right)$   $D-D: \quad a) \times \left(\lim_{n \to \infty} d_n = \lim_{n \to \infty} (\lim_{n \to \infty} d_n) = \lim_{n \to \infty} (\lim_{n \to \infty$