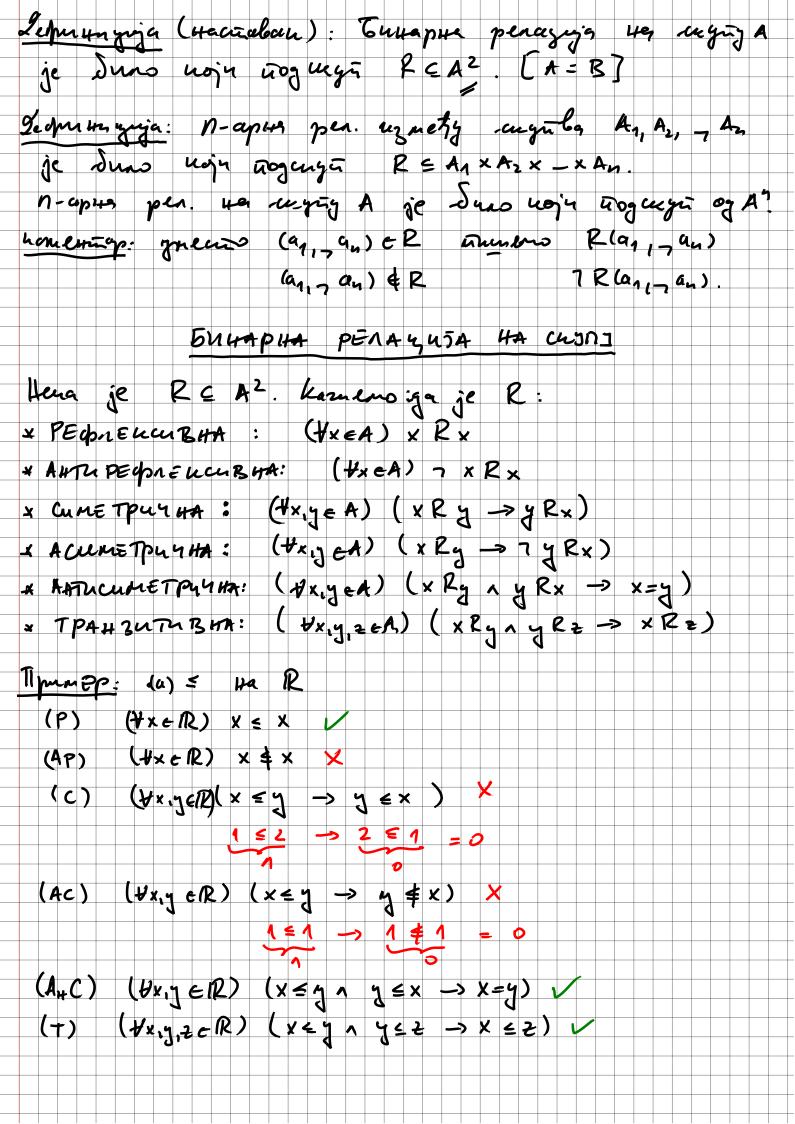
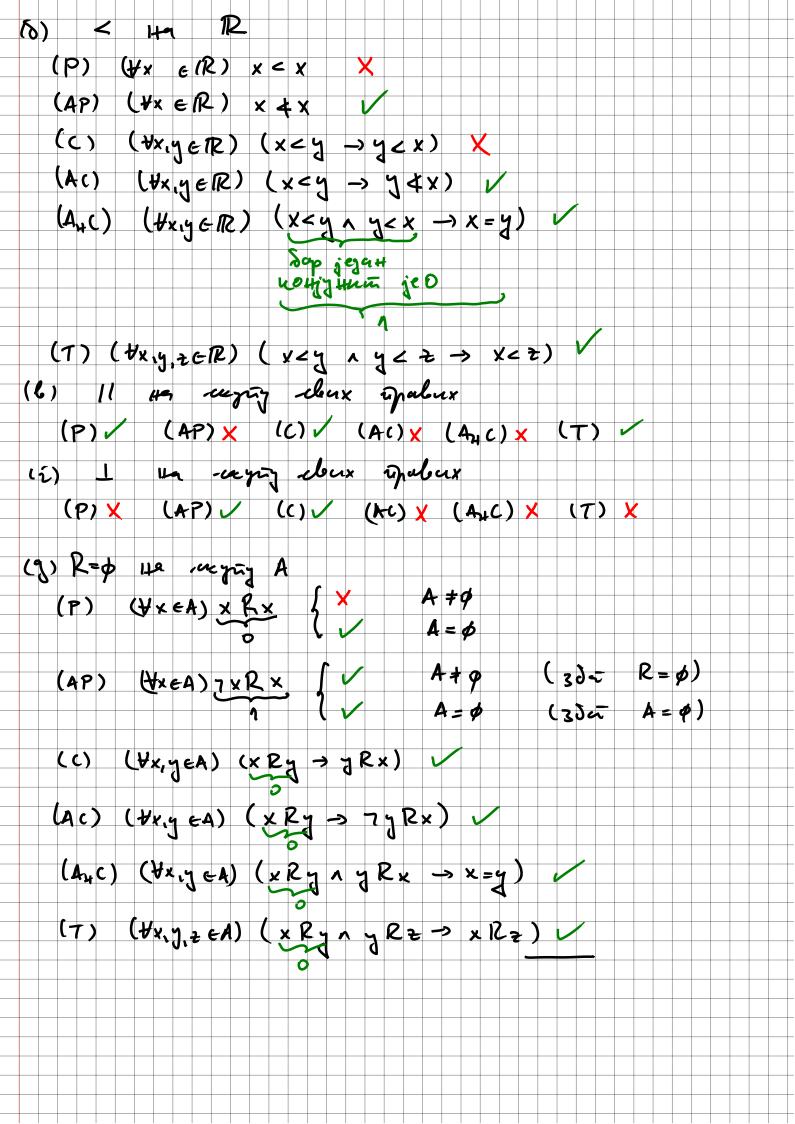
Y PEJETH DAP U JEHA PTOB OP OUZBOA (a,6) zazobo malon mezetz ocodutz (a,6) = (c,d) auno a=c m 6=d korupein 40: (a,6):= } }a4, }a,647. Lugisla An B je regin: AxB = {(a,6) | a e A , 6 e B 7. Emrep: . R×R - peares pober 4  $= \{(1,a),(1,c),(1,c),(2,a),(2,c)\}$ · ano 141=m, 181=n, orga 14x81= m.n. OcoShue: A x (BUC) = (AxB) U(AxC) (4) A x (Bnc) = (AxB) n(Axc), Ax (B(C) = (AxB) ( (Axc) Ax (Bac) = (AxB) a (Axc) Ax BC = (AxB)C (4) IST He Ka X = A x (B 9c); X=(9,0), a & A, 6 & B 1 C ny be BOC unano be B u bec my ach, be B mucho X = (4,6) E AXB uz act lec unaso K = (a,6) EAXC gaune, XE (AXB) n(AXC). [] Hun je x e (4×3) n (4×c); tagga x e 4×B n x e A×C my x E AxB mumo x = (a,6), a ∈ A, b ∈ B, uz xe AxC mumo x = (a', 6'), a'eA, b'e c lacano (a,6)=x=(a',6'), ta lama a=a' 1 6=6' Laure, a eA, n beBuleC, an lo eBOC Tipena mone x = (9,6) = A × (Bnc)

Ledmun mja: ypeteus n-mopua enemerama a, a, a, a, je οδή εια  $(α_1, α_2, η α_n)$  κοίμ ζας.  $α_1 = α_2 = α_2 = α_1 = α_2 = α_2 = α_1 = α$ Korupento: (an, az, -an) geopmen y ens pengezu 6 uo: (a1, - an, an, ): = ((a1, - au), an, ) (a, a, a, ) = ((a, a, a, a, )  $(a_1, a_2, a_3, a_4) = ((a_1, a_2, a_3), a_4) = ((a_1, a_2), a_3), a_4)$ Lespeurnzuja: Lenapinole inponstag cayirla A, Az, Az, je: Anx Az x ... x An =  $\frac{1}{2}(a_1, a_2, a_n)$  |  $a_1 \in A_1$ ,  $a_2 \in A_2$ ,  $a_3 \in A_1$  |  $a_4 \in A_2$  |  $a_4 \in A_3$  |  $a_4 \in A_4$  |  $a_5 \in A_1$  |  $a_6 \in A_2$  |  $a_6 \in A_1$  |  $a_6 \in A_1$  |  $a_6 \in A_1$  |  $a_6 \in A_2$  |  $a_6 \in A_1$  |  $a_6 \in A_1$  |  $a_6 \in A_2$  |  $a_6 \in A_1$  |  $a_6 \in A_1$  |  $a_6 \in A_2$  |  $a_6 \in A_1$  |  $a_6 \in A_1$  |  $a_6 \in A_2$  |  $a_6 \in A_1$  |  $a_6 \in A_1$  |  $a_6 \in A_2$  |  $a_6 \in A_1$  |  $a_6 \in A_2$  |  $a_6 \in A_1$  |  $a_6 \in A_1$  |  $a_6 \in A_2$  |  $a_6 \in A_2$  |  $a_6 \in A_1$  |  $a_6 \in A_2$  |  $a_6 \in A_2$  |  $a_6 \in A_1$  |  $a_6 \in A_2$   $A^{4}:=A, A^{\circ}:=307.$ пример: R<sup>1</sup>- R×R - реалия равин R3 = RxRx R - peanson mocon PENAZUSE Ledninguja: Engappa penagrija uznezy acytila An R je snao uoja tiojagti RCAXR. upunep: · ¿ C RXR, tge (a,6) e = anno a = 6 · 1 c PxR, tze (p,x) e 1 acco p 1 a. P= cuye palus | (P,x) & 1 tener eno p & x homenap: And REAXB, quecino (a, l)c P. muneus Julio (a, b) & R. Thures a R. b (7 a R.b, 7 R (a, b))





ONEPAYUSE LA PENAYUSAMA hans RSEAZ, gegnuncaum of RUS, RAS, RIS, RSS, RC (ymprop AZ; RC = AZ R). a RUS 6 = aRB v aSG a RUS 6 = aRB n aSG 215 6 = aRB nraS6 a Ros 6 = aRR y use = 7 aR6 a RC 6 2 chuungig: Unberg peragnje R ← A² je peragnje P-1 & AZ geofmen carrer ca: 2-1= } (b,a) | (a,b) = 29 6 R-1a = a R 6 [Ano REAXB, onga R-1 EBXA.] 0 co du (12-1)-1 = R  $\alpha (P^{-1})^{-1} 6 = 6 P^{-1} \alpha = \alpha P 6$ (8) (R \* S)-1 = R-1 \* S-1, ze \* E & U, n, 1, 09 ganaz za x = \(\text{2} : (R \( \text{S} \)) -1 = R \( \text{A} \text{S}^{-1} \)

a (R \( \text{S} \)) -1 \( \text{E} = R \( \text{A} \text{S}^{-1} \) = 6 R a <u>v</u> 65 a = a R-16 <u>v</u> a S-16 = a (21051) 6 W (6)  $(2^{c})^{-1} = (2^{-1})^{c}$ garaj: a (RC) 16 = BRC a = 7 6Ra = 7 a R-16 = a (R-1) 6 6

Prod: Hena je REAL.
R zagobonoalou ocodning (D) auco R-1 zaz. (D), Mepterse: Hena je REAL ize De {P, AP, C, AC, A,C, T}. ganaj: (P):  $(\forall x \in A) \times R \times = (\forall x \in A) \times R^{\dagger} \times R^{\dagger}$   $= \begin{cases} R_{\downarrow}e & (P) \\ R_{\downarrow}e & (P) \end{cases} \times R^{\dagger} = (P)$   $= \begin{cases} R_{\downarrow}e & (P) \\ R_{\downarrow}e & (P) \end{cases} \times R^{\dagger} \times R^$ 35 t gpjt. 2-1 je (7) (T) (HxyzeA) (xRy \ylz > xRz) = Pjc (7) = (+≥1x €A) (≥ P-1x A 2 P-1x -> 2 P-1x) = lan 3 a gegs. R 1 u nongrambenour 1. Jennuagja: Monto zugrja penagrja R a S H acgija je penagrja S0 R =  $\{(a,c)\in A^2 \mid (\exists b\in A) (a,b)\in R \land (b,c)\in S)\}$ . a SOR C = (3GEA) (aRb 1 bsc). LAMO RCAXB ~ SEBXC, orga SORCAXC.] Typemen: (a) A=31, L,34, R=3(12)4 S=3(23)4 SOR = {(1,3)} = jep 1 R2 1 253 a Sor c = (36eh) (arb 165c)  $a=1, \ell=2$   $\ell=2, \ell=3$ ogalge jezuro 1 SOR 3. = (36eA) (a S 6 A 6 R c)

a=1,6=3

6=1,c=2

equbge 7 alos 6 Huzu jerno a,6 a Ros c 205 = Ø. Luine SOR # ROS.

