$$A = \{a_1, a_2, a_3\}$$
; $R \subseteq A^2$

1)
$$R = \{(a_1, a_1), (a_1, a_2), (a_2, a_1), (a_2, a_3), (a_3, a_3)\}$$

zadame repeteramen

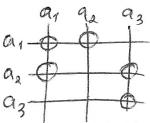
2) Trasnurence zadacere

Ţ				
R (D(R))(R)	An	a ₂	03
R.(a a)	{a1, a2	{a,, a,}	\$1,5(a; }
R(0	A2)			
R(Q(3)		31	

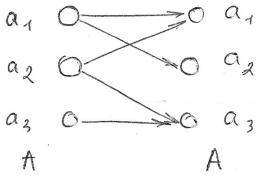
3) Manspeys a our nous event:

n = | Al, replace Kommentolk comporan, brigane

	011	Q2	43
a,	1	1	
02	. 1		1
a,			1



4. Графический (стреночный)



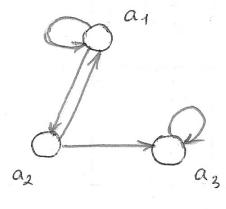
* kon- bo especion -

dre nepbour

dre tropoex

Koumoneur hopes

5. Trap ournouseum



* Kon-80 pêrep -

Tiputalement dannois anocodis « Soule obusum engralem (« coorberain benen)

$$A = \{1, 2\}$$
 $B = \{a, b, c\}$

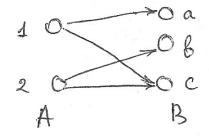
2. Crowdyn-D(g), Eduncinbernais espoks-cerence p(D(p))

D(b)	1	2
John Say	fa,c}	{8, c}

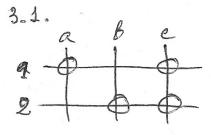
3. nxm > 2x3,

	1 a 1	B	C
1	1		1
2		1	1

4. Traperecues



especial - 2n-Tol coorbet cobuse



5. Opr. yaq drue coorbescibud zadabasto ne npermeto.

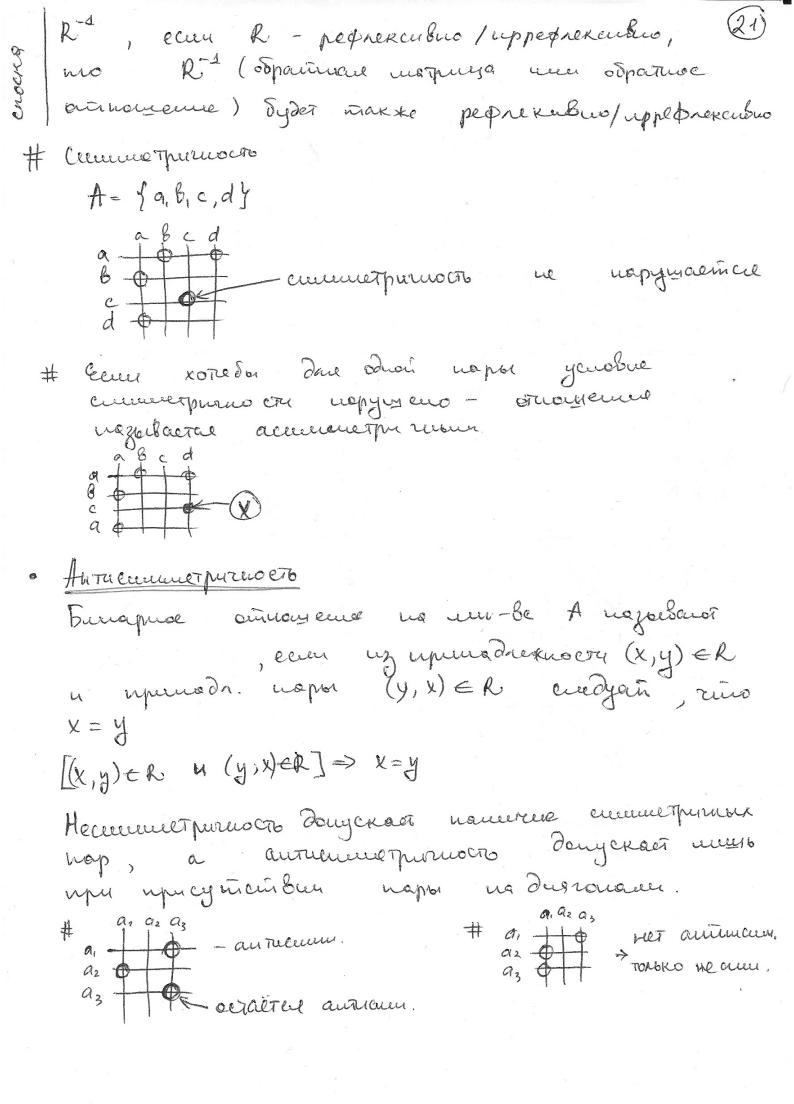
свойства Винариых атношений. Tycins ne mu-be A zadano Sunapnoe omenuence R Chairenibo - mazbanne: · Burapuse ouin. - peproxuebuse, even dane y +1-70 x €A uneret meeto x R x , (x, x) & R (zourcement m. Durrourus + one € ournomenus R idA €R (ne mpunadnexus, a brunsaeter, T.K. idA - MM-Bo) Eun ner odne nepa (x,x) & R, marce ornau. nagorbarot uppeprercububum (nyorane zu. duaronane) idA OR = \$ Есни честь эл-тов х даёт принадлежность, а для части выполня етей, то оно нерефлексивное. * прерыменвность - частый стуг. перерпексивности. # Ha nex. reneroborer non-be A zadamo orn. pabenciba. Ono peprencerbuo. $x \in A$, x = x (xRx, $x \in R \rightarrow =$) # Oim. espoioro repaberiaba na rencu. um-8e.

R=x < y > V x & R, X < x, -x > kn = upperpresendamento. # He aporoe repuberabo no rever un. - Be. $R: X \leq Y \Rightarrow Y \in R$, $X \leq X - \text{bepmo}$. $R: X \leq Y = perposerus = per$ # a, file upperprexcubuse.

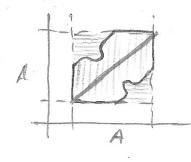
• Cumultipurmocine - oun. k - commetpurmoe, ecun

one \forall napon $(a,b) \in \mathbb{R} \Rightarrow (b,a) \in \mathbb{R}$.

num tax: $(x,y) \in \mathbb{R} \Rightarrow (y,x) \in \mathbb{R}^{2}$. $\partial ne \forall pap(x,y) \in \mathbb{R}$. $\Rightarrow \partial onx + val$ cobmoore maximuser $||x|| = ||x||^{\frac{1}{2}}$

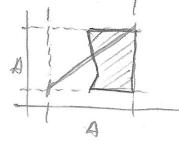


Impayeunce buoeins X, y, Z & A y youndnessocan uap (x,y) (y, 2) R enodyer, runs (x, 2) &R [(x,y) ER " (y, z) ER] => (X,2) ER. Eun dre tlanop. (xy) u (y,t) ne Boinoru. yourobre => ne ripanzementements. a < b, b < c => upederabutio ne yaqueax Projamble corba moxuo Orthorneren paule Soul mapuk, Kor. mpobulaciel Tax: RSAZ ACR , R- perpresentince, не рефлексивное R - uppeprexubuse

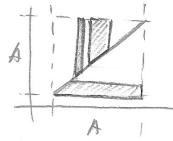


R = IIII cerrelel Tpurus

R== 11-



R- ne cremethy revol



R - anthemme Tpurco