2/4. (1,2) 7.3 (1,2)->(2,1) Lel: (1,1) (1/2) -) (2/2) lell: (1/2)EKUIVALE WCIA RELA'CIÓ (12)-) (213) kell: (13) b, refl. antisium X trans., (2,1), (1,3) & S, de (2,3) & S => NEM transitu $S(1,2) \in S_1(2,1) \in S_1(1,1) \notin S_2(1,1) \notin S_2(1,1) \in S_1(1,1) \notin S_2(1,1) \in S_2(1,1) \in$ d, antissium, es soig, autissium. C. transitu! ment \$ X: (2/x) € B q (1/x) € B

(5.) antiszimm. hurokelet (x,y), (y,z), (x,x), (y,y), ---} R szimn: R = R Ha R rd. srimm & autossim. (212) (213) 1-1 (x,x) (y) $\int_{\mathbb{R}^{3}} (x^{1}x)^{1} \left(\tilde{\mathcal{A}}^{1} \right)^{1} dx = \int_{\mathbb{R}^{3}} (x^{1}x)^{1} \left(\tilde{\mathcal{A}}^{1} \right)^{1} dx$ b, stimm es antissium: RSAXA $R = \{\{\} \times \{\}\}\}$ $R \subseteq \{(\alpha_1, \alpha) \mid \alpha \in A\}$ townik ... as $\exists x : (\alpha_{1}x) \in \mathbb{R}^{1} \in (x, \alpha) \notin \mathbb{R}$ C, RSAXAmelliaEt: (a,a) & R Stimm: (a,b)eR=) (b,a)eR kell: Nem tranz leggen pl.: {1,2} < A $(1/2) \in \mathbb{R} = (2/1) \in \mathbb{R} / SRimn)$ (1) & R inell. => num tranzitu

9 a, refl. $\int a \in \mathbb{Z}$: $a+a \neq S$. refl. I to ...

Stimm I to n = ?: mt h ps (m,n) = R

n+m ps. (nm) = R trans. / Yminio EZ mun ps (min) ER n+0 Ps. (r,6)∈ R Chivalin Cia-=) (m,0)? R elnivaluciaorthyol 2 1 Pl. Legger $R = \{(a,b) \mid a-b \text{ on } + th + b \}$ 3-mel vet ootas meredelul meggezis 3-mel vitt oostasi meredélen 3km/ 2 3km2 013,6,5 147,10, 2, 5,8,11, ...

 $M. \alpha, \{(1,1), (2,2), (3,3), (4,4)\}$

b) $\{(1,2)\}$ $\{(1,2)\}$ $\{(1,2)\}$ $\{(1,2)\}$ $\{(1,1)\}$ $\{(2,2)\}$ $\{(3,3)\}$