$$R \subseteq A \times A$$

- · 4000 0 4-4 f=AxB
- · 30 FOEA 3 HAG-MANO egro B: ORB
- <u>«</u> ΤυΓ. φ- Я

30 FREA F TUYNO ZAM B: ORB

308 YTEN geopulupane foilV TIV

м.с.т че д е функция

$$f_0 = \{(0,0)\}$$

Heka n e npoljbonno.

HE E CHTUCHMETPLYMA.

HERO X5 - TPONSOTHY W (X,5) ERAP

· TPAMZUTUBHOCT. YX Yy Yz ((x,5) € R DP ~ (5,2) € R DP => (x,2) € R DP He Ka X, 5, 7 - MOUZBORHL U (x, 5) ERMP (5, 2) ERMP (4,2) ER (4,2) ER => (x,2) ER (x,5)6P => (x,2)6P => (x,2)6P $(X_1 + X_2) \in R \cap P$ => RAP e pen. na eub. g) Ako Re pen 400Th4410 Mapegola, To RUR-1 e pen na exb. $R^{-1} = \{ (4x) \mid (x,5) \in R \}$

BEZMONNO E RUR-1 ya HE E TPANJUTUBNA

Pewenhe: He!

$$R = \{(1,1), (1,1)(3,3), (4,1), (3,2)\}$$

$$R = \{(1,1), (1,1)(3,3), (4,1), (3,2)\}$$

$$TOLRBA: R^{-1} = \{(4,1), (2,1), (3,3), (2,1), (2,3)\}$$

$$RUR^{-1} = \{(4,1)(2,1), (3,3)(2,1)(2,3), (4,1)(3,2)\}$$

$$\{(1,2) \in RUR^{-1}\}$$

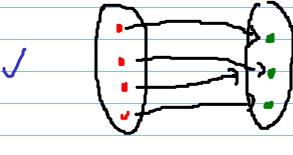
$$\{(1,3) \notin RUR^{-1}\}$$

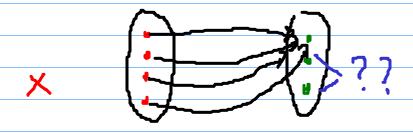
$$\{(2,3) \in RUR^{-1}\}$$

$$= RUR^{-1} \text{ He e TPAH3LTU6Ma}$$

$$= RUR^{-1} \text{ He e Pen. Ha ev6.}$$

e) Avo Re pen. HA YACT. Hapeg Ja, TO RAR-1 e pen. Ha exb. AND e 69 PND, TU KAKBB = SPOYT En. Ho eug. ? R12-1= {(x,x) | x & A} => RAR-1 e per re exb. Spot Knacobe no eus: [Al def: f:A->B e сюреиция YBEBJAEA fla) = 6





Thorgenue (*): Am B ca Mn-Ba

] f: A-7B u f e cropersus => |A|21B1

des: f: A-)Be mHBKyng

$$\frac{?}{d4 = d2} \qquad P \rightarrow q = 7q - 77P$$









$$f_2(x) = \left[\frac{2}{2}\right] \qquad f_2(4) = f_1(5) = 2$$

$$4 \neq 5$$

$$f_3(x) = |x|$$
 $f_3(-3) = f_3(3)$

TERPORNUE: (**)! AKO F: A->B u J e uneuzus, ro: |A| ≤ |B| def: fe Jueryna (=) fe uneryna ^fe cmperyna 1A1 = 1B1 (=) =] f: A->13 e & Leugush Bapho The, ye +: (INXIN) -> |11 e Juensus? (3,4)~ [6,1]_ (0,7) -(1, 5)

He e unergus.

$$f(a,b) = [a+b][a+b+1]_{+b}$$

твърдение:

$$f:A - B = Suekyus (=) f^{-1} = \phiyhkyus$$

 $f^{-1} = \{(B, a) \mid (a, B) \in f\}$

=>
$$\langle 6, a' \rangle \in f^{-1}$$

 $f^{-1}(6) = a'$

Longerame, 4e f He e Sheryla

1 cn)
$$f$$
 He e chopenges

 $\exists \beta \ 7 \ \exists \alpha \quad f(\alpha) = \beta$
 $\Rightarrow f^{-1}(\beta)$ He e getherwhere

Ho f^{-1} e ϕ -9 (TOT ANHA)

 HO TOLABO: $\langle \alpha_1, \beta \rangle \in \mathcal{F}$ $\langle \alpha_2, \beta \rangle \in \mathcal{F}$ HO $\langle \beta, \alpha_1 \rangle \in \mathcal{F}^{-1}$ $\langle \beta, \alpha_2 \rangle \in \mathcal{F}^{-1}$ =) \mathcal{F}^{-1} He YOCTLIAMO \mathcal{G}^{-9}

=) f e duekyug