$$R \subseteq A \times B$$
 < $a, b > \in R$

uzenegbarie za choùciba

1) Pedunokeubhoet
$$V$$

$$(\forall x \in 1^{N}) \times (x = \emptyset) \Rightarrow (x, x) \in R$$

2) OLHTHPEODIEKELBHA X <113,413> € R 3) Симетрична х < A, B) 6 R, HO (B, A) & R BIAFO CHTH CHARTPLYHO / 4 HAUB (ARB ^ BRA -> A=B) Hera A, B Apons Bonny in Heng $A \setminus B = \emptyset$ $B \setminus A = \emptyset$ $(B \leq A)$ В 44 ма ел, (ASB) A HAND CLEMENT, B HAND EN,
KOUTO BA ME E EN NO B KOUTO GU HE E
EN MO B

5) CHAHO ON HILLEMETPHYHA X

113 {23

< {11, {2} > & R < {23, {11 > & R

6) TPAMBUTL BHOOT V

VAVBYC (ARB^BRC -> ARC)

AB, C ppouz Bonny

ARB 4 BRC

 $A \setminus B = \emptyset$ $B \setminus C = \emptyset$

HAMA EN HA HAMA EN HAB A, KOETO ga He

BEC ASB AC C

Alua en Ho A. KUGTO 84 HE B C

 $A \setminus C = \emptyset$ -> ARC

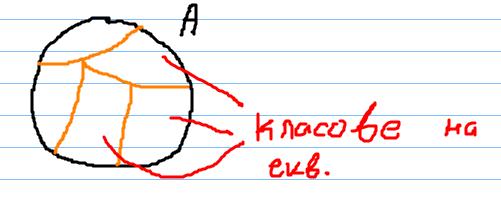
def: Релячия на екв.

 $R \subseteq A \times A$

= 123-

- · Pedonercy BHG
- · TPANZUTLBHOLT

-> nopaman payorbone no A на клашве на екв.



A1 -- An e purputue Ha A Ü∄: = ∄

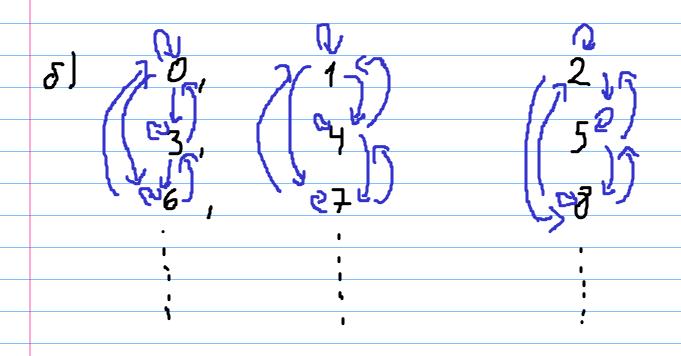
H1 -- An e pasoubare no A

- · e nokputue
- ∀; ∀; => A; ∩ A; = Ø

X 5,7- Inpulzeonny

$$x$$
Ry - x-y=3*t ($t \in \mathbb{Z}$)

$$x - z = 3(t + 5)$$



349 Hera Finsubs (IV) - Bougho Kpagnum nogunomeciba no IV

Finsubs (IV) $\leq 2^N$ R \leq Finsubs (IV) \times Finsubs (IV)

X R \leq (-> $\sum_{x \in X} 2^x - \sum_{x \in Y} 2^x + (t \in \mathbb{Z})$

a) Lok, 4e R e pen eu 6. J) Kn. ron eub a) People $\forall x (x R x)$ - Hera X npolybonno Четио $\sum_{X \in X} x^2 - \sum_{X \in X} x = \sum_{X \in X} (X^2 - X) = \sum_{X \in X} X(X - 1)$ = 42 THD xRx ~ · Cum. \(\text{y} \(\text{XRY} -> \text{YRX} \) <u> Х. 5 - ПР. Ми-ва.</u> XRy . Σx² - Σ5 = 4e THO xex 5e5

Ey2 - Exquetho

· TPANZLINGHOCF V

- X, 5,2- 11PO 43 Bu 17 H4

? X R Z ??

- а) Auk, че Re pen на ekb.
- d) Onnwere [1]

$$\forall \times (XRX) \qquad \frac{X}{X} = 1 - \left(\frac{1}{4}\right)^2$$

XIJ- MPOWZ B.

$$9 - \frac{\alpha}{6} \left(\frac{\alpha}{6}\right)^2 = \frac{\times}{9}$$

$$\frac{b}{a} \in \mathbb{Q}$$
 $\left(\frac{b}{a}\right)^2 = \frac{9}{x} = 9$

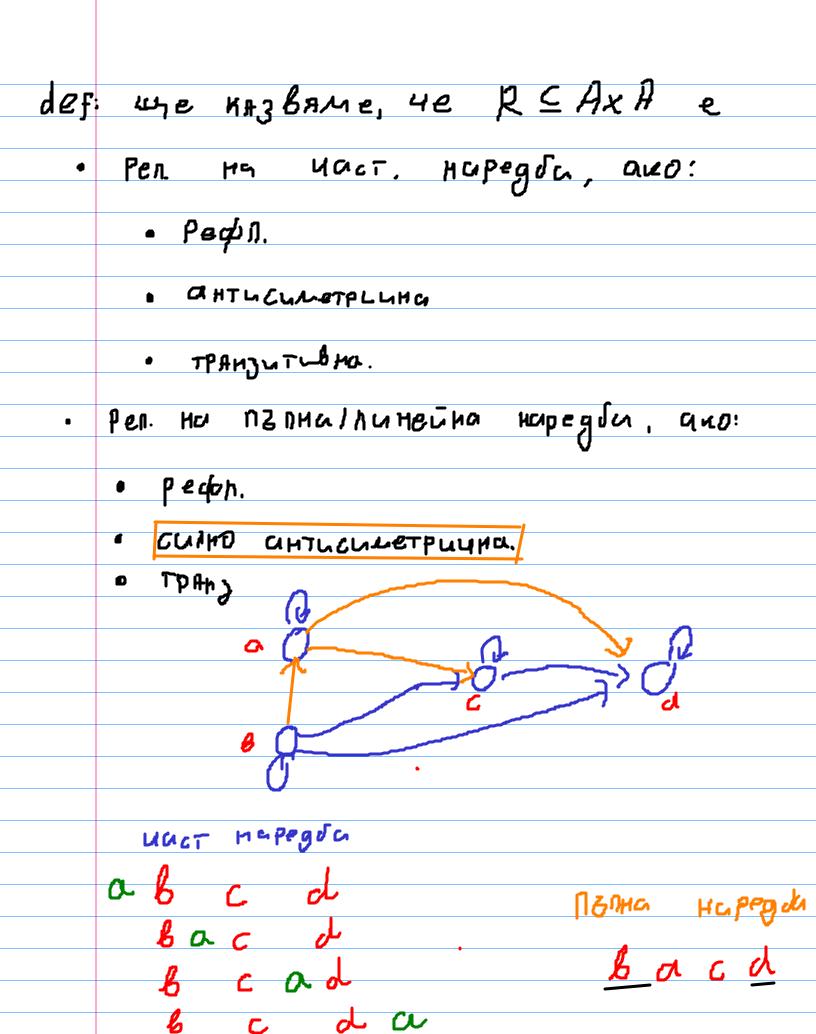
· TPAHZUTUBHOCT

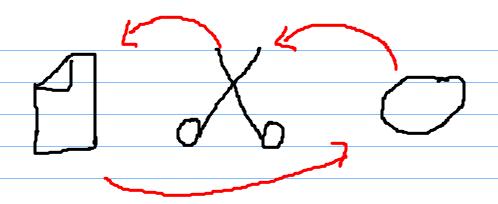
· X, 5, = npouzBony

$$xRy$$
 $\ddot{\zeta} - \dot{q}^2 = (\frac{\alpha}{2})^2$

$$y R = \frac{y}{z} = q^{12} = \left(\frac{m}{n}\right)^2$$

$$\frac{X}{3} \cdot \frac{3}{2} = \left(\frac{\alpha}{\beta}\right)^2 \left(\frac{m}{n}\right)^2 = \left(\frac{\alpha \cdot m}{\beta \cdot n}\right)^2$$





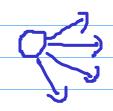
Re your rupegon (REAXA)

107: X e Makchmajien element,

and 7 = 4(y + x ^ x Ry) = 3

def: x e MUHLMONEH EXEMPHT,

OKO 7 34(Y#K^YRX)



3ag Hera S={0...32} u R=5x5

aRB (-> B-a=0 (mod 3) 1 (a-620)

• Peoply.
$$\forall x (x R x)$$

$$\sqrt{x-x=0 \text{ (mod 3)}} \quad x-x \ge 0$$

· A HTUCHMET PLYND CT.

• Трдиз.

J) Opegenere Marc. u Mun. exercha. 9 --- 30

Mun: 30,31,32

Marc: 0, 1, 2

B) SPOE GUNGHU TON. COPTLAOBEL

dos: REAXB

Re yacthyta de-9 and

YOUEA COM HAD-MHOTO EGNO BEB