(1) f функционально dont = A

(2) f TOTANGEO gna A => domf ZA

 $f(x) = y \iff (x, y) \in f$

Onp: $B^A = \{f \in P(A \times B) \mid f : A \rightarrow B\}$

 $f \in B$ $\Leftarrow \gamma f : \phi \rightarrow B$

 $\Rightarrow f \subseteq \emptyset \times \beta = \emptyset$ => f = g . +003 (4x) == (4) (+00 = 5

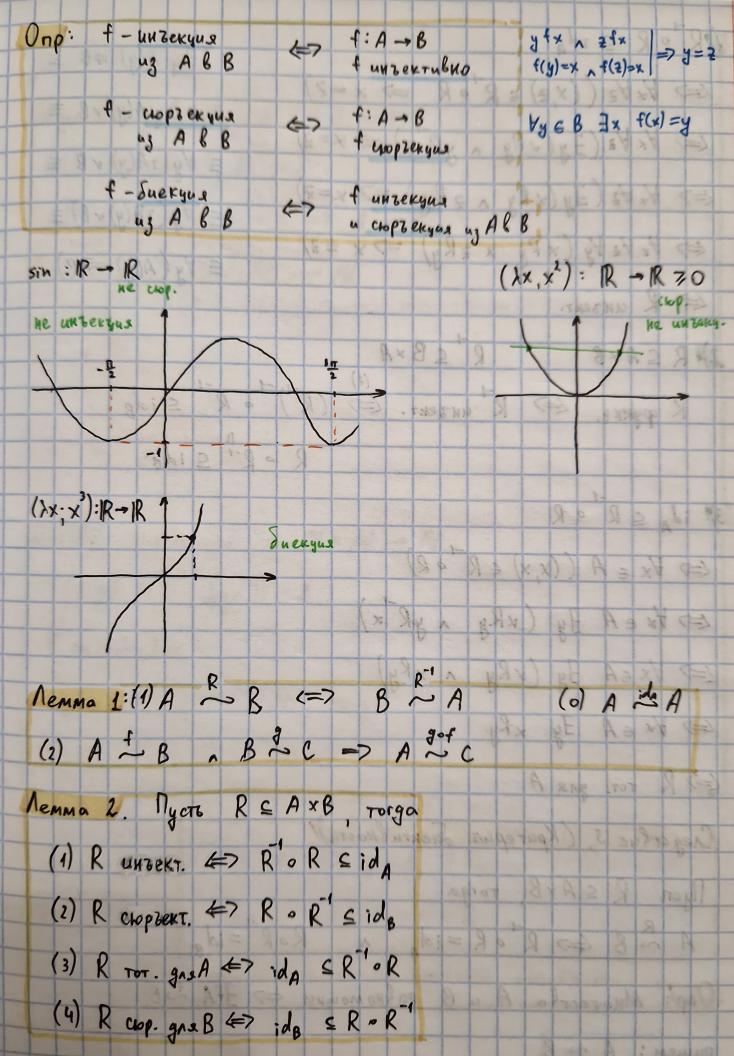
 $B^{\phi} = \{\phi\}$

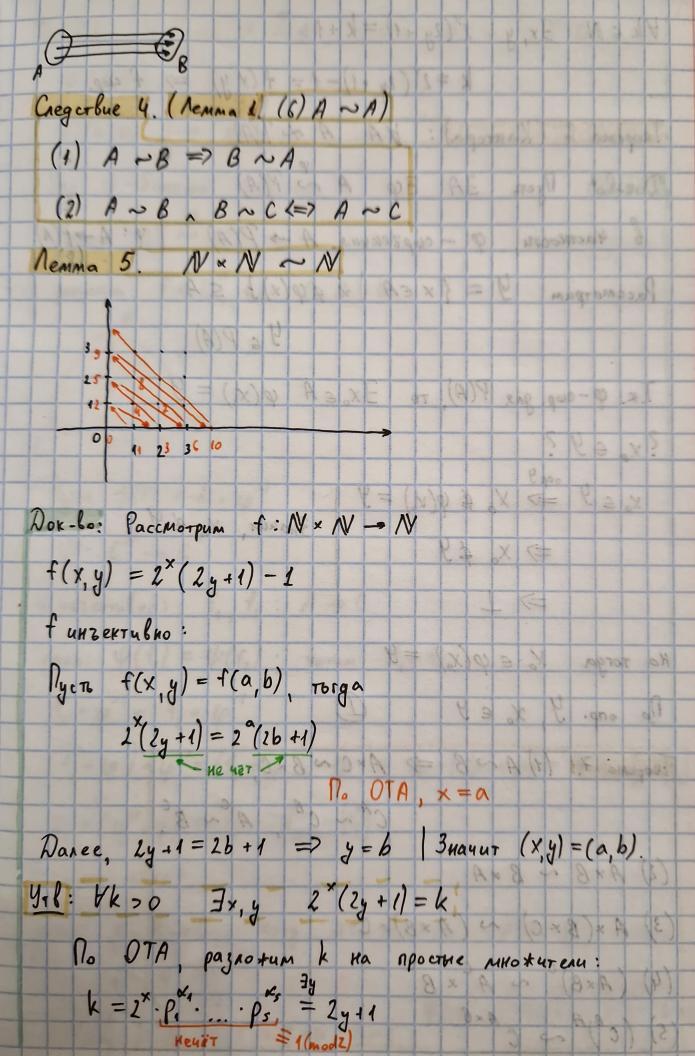
? \$: \$ -> B

 $\forall x \forall y \forall z ((x,y) \in \phi \land (x,z) \in \phi \Rightarrow y = z)$ $\forall x (x \in \phi \Rightarrow \exists y (x,y) \in \phi)$ ucruno ucruno

(1) R unzerrubno => Vxy E (yRx x ZRx => y = 2)

(2) R uppertubro gas H => Vy (y = H =>]x x Ry)





Vk∈N ∃x, y 1×(2y+1) = k+1 $k = 2^{\times}(2y+1)-1 = f(x,y) = 7 + cop.$ Teopena G (Kantopa): VA A + P(A) Dok-lo: Pyon 3A 30 A~ P(A) в частности, ф - сторзекция A -> P(A) (4: A->P(A) Paccomorpum $y = \{x \in A \mid x \notin \varphi(x)\} \leq A$ Y = P(A) T.K. φ -cop. gas P(A), to $\exists x_o \in A \ \varphi(x_o) = Y$?x, ∈ y ? $x_{o} \in \mathcal{Y} \stackrel{\circ}{=} \times_{o} \notin \varphi(x_{o}) = \mathcal{Y}$ $\Rightarrow x_{o} \notin \mathcal{Y}$ $\Rightarrow x_{o} \notin \mathcal{Y}$ $3u_{o}u_{u}x_{v} \times_{o} \notin \mathcal{Y}$ Ho Torga $X_o \in \varphi(X_o) = Y$ No onp. 4, xo e 4 D Теорема 7. (1) A~B => A×C~В×С, CA~CB, AC~BC (2) A×B ~ B × A (3) $A \times (B \times C) \sim (A \times B) \times C$ OIA paractum (4) (AxB) ~ A x B (5) (c^B)A~ cA*B

