$$\begin{array}{c} (2) \forall x \ A(x) \Rightarrow \forall y \ (\exists z \ B(x,y,z) \Rightarrow v ) \\ \Rightarrow \neg \forall x \ A(x) \ N \ \exists x \ C(x,y)) = \\ = \forall x \ A(x) \ N \ \exists x \ C(x,y)) = \\ = \exists x \ A(x) \ N \ \exists x \ C(x,y)) = \\ = \exists x \ A(x) \ N \ \exists x \ C(x,y)) = \\ = \exists x \ \forall y \ \forall z \ \exists a \ \exists b \ (A(x) \ V \ B(x,y,z)) \ V \\ V(A(u) \ N \ C(b,y)) - BH \ \varphi \\ V(A(u) \ N \ C(b,y)) - BH \ \varphi \\ V(F(f(y,z)) \ N \ C(g(y,z),y)) \\ \exists x \ a \ N \ A(x) \ P(x) \Rightarrow A(x) \\ \downarrow F(x) \Rightarrow A(x) \\ \downarrow F(x) \Rightarrow A(x) \\ \downarrow F(x) \\ \downarrow F(x) \Rightarrow A(x) \\ \downarrow F(x) \\ \downarrow F($$

= JX Q(X) ((x) A A (x)) VE (x) FP(C1) (X) ON (X) ) VEI of R(C) Tate zaxpulace, otrue q-la e zara sonozna ry iyo vo (45) P(x): X - repuskyperenk D(x): X - gpyw kyperus Q(x): x - enopremer L(x,y): x zuanomin z y A. Jx (P(x) A Vy (D(y)  $A_{\lambda}: \exists x (\mathcal{D}(x) \Rightarrow \mathcal{U}(x))$ A:  $\exists x \left( L(P(x)) \right)$ A:  $\exists x \left( P(x) \land \forall y \left( D(y) \rightarrow L(x,y) \right) \right)$ spouler (1) A(x) - x має багато - Jana Tuit  $\beta(x) - x$ C(x) - X CTYGENET D(x) - x mas bema zuarenl

1) +x (A(x) -> B(x)) - rino reza 2) IX (C(x) 1 B(x)) - rino Tega 3) Ix (c(x) AD(x)) - rino Teza Bucusbok: JX (D(x) A A(x)) 4) C(a) 1 D(a) - ex3. 1004 12 pet. (3) 5) D (a) - busya (con) week. go 4 6) C(a) N B(a) - ekg. Kouk. 90 2 7) B(a) - Buryz, Konbork go 6 8) A (a) -> B (a) - yub. KOUKP go 1 g) A (a) - modus tollers go: 7,8 10) D(a) 1 A(a) - ybeg. KOM. go 5,9 11) Fx (D(x) A A (a)) - exs. yzaz. go 10 (4a) FXJZQ(X,Z) > JZQ(y,Z) DEAL THE SECRET