Etzamehaisismus Siner N17 Monomenco Popis K-29 3. Doerigum goopmyny  $\left(\forall \times (P(x) \rightarrow R(x)) \wedge \forall \times (P(x) \rightarrow Q(x))\right) \rightarrow \left(\exists \times f(x) \rightarrow \exists \times (Q(x) \land R(x))\right)$ Tigens big cynpointeners ma pozrhane no ganeporena  $\neg \left( - \| - \right) =$ = 7 (7 (Hx(P(x)) > R(x)) , Hx(P(x) > Q(x))) V (FxP(x) > Fx(Q(x) nR(x)))) =  $= \left( \forall x (P(x) \rightarrow P(x)) \wedge \forall x (P(x) \rightarrow Q(x)) \right) \wedge \neg \neg \exists x (Q(x) \rightarrow P(x)) = 0$ = Yx ( (7PWVR(x)) 1 (7P(x) VQ(x))) 1 (7XP(x) 173x (QW 1RW))= = Yx((7P(x) v R(x)) 1(7P(x) v R(x))) 1 (3xP(x) 1 4x(7R(x) v 2R(x))). = Vx ((7P(x) vR(x)) A(7P(x) vQ(x)) a (7Q(x) v7R(x))) A = yP(y) = 3 legemo go cinangapishoi goopun Teniminyemo ubantop icuybanus) S = d' 7P(x) v R(x), 7P(x) v R(x), 7Q(x) v 7R(x), P(f(x))}  $E = \{a, f(a), f(f(a)), \dots\}$ 1)  $7P(f(a) \vee P(f(a)))$ 6) 7P(f(a)) v Q(f(a)) 7) [2,5,6) 2) P(f(a))3) R(f(a)) (1,2) Pinxe, morathoba popuyra - inoloronorie 4) 7Q(fa)) v 7f(fa)) 5) 7 Q (f(a)) (3,4)

1. Dobecom, uso 7A, 7B, 7C, 7D + Av (B > (C+D))

1) 7C,7D + C-D

2) 7B, C->D + B -> (C->D)

3) 7A, B > (C +D) + A v (B > (C ->D))