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19.06.
2020
      Hypgerbryn Memoria, K-29
                                                       Ekzamenaisiumen Sirem & 10
  3. Docuigienes gograngay:
                                               (\exists x A(x) \rightarrow \forall x B(x)) \rightarrow (\forall x (A(x) \rightarrow B(x)))
                         Pozranemo odpuene mbépgmenna!
                                     \neg ((\exists \times A(x) \rightarrow \forall \times B(x)) \rightarrow \forall \times (A(x) \rightarrow B(x))) \rightarrow ((x) \rightarrow B(x))) \rightarrow ((x) \rightarrow B(x)) \rightarrow 
                             3 begeno go honepegnoi ngruearimoi dooprun:
                   \neg ((\neg \exists \times A(x) \lor \forall x B(x)) \Rightarrow \forall x (\neg A(x) \lor B(x)))
                 \neg (\neg (\neg \exists \times A(x) \lor \forall \times B(x)) \lor \forall \times (\neg A(x) \lor B(x)))
                   (~ 3×A(x)V V×B(x)) n ¬ Vx(¬·A(x)VB(x)))
                     (Yx(¬A(x)) V Yx /3(x)) A Ix (+ (¬A(x) V B(x)))
                               \forall x \forall y (\neg A(x) \lor B(y)) \land \exists x (A(x) \land \neg B(x))
           Vx Vy == ((7 A(x) V B(y)) A (2) A 7 B(z))
3 begenio go emangarineroi gogrum cumiscon
eniminagii skongramib ichy banna:
                                  Vx Vy ((7A(x) VB(y)) nA(f(x,y)) n7B(f(x,y))
                    Muonuna guz'ronkmib norizari apopungui:
                                  S = { - A(x) V B(y), A(f(x,y)), - B(f(x,y)))}
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Epoquibcomuni quibercyre rinomune guz'uuxmib:  $E = \{a, f(a, a), f(a, f(a, a)),$  $f(f(\alpha,\alpha),\alpha), f(f(\alpha,\alpha), f(\alpha,\alpha)), \dots$ Виведення пороживого дизновкта: 4. 7 A(x) VB(y)BA 30000 100 2. (A (if (x,y))) \ (x) (x) \ 3: 73 (f(x,y))) in 100 101 101 4:77 A (f(a,a)) v B (f(a,a)). (5) A (f. (a, a) / / (k) a) (c) (c) 6.7 B (f(a,a))) 4.13 (f(a, a) 9. COM (40) DO (50) BUD (50) BUD (50) Omme, oberneue insergeneuria - E cynéperaisbus, токи погаткова форклиция  $(\exists x A(x) \rightarrow \forall x B(x)) \rightarrow \forall x (A(x) \rightarrow B(x))$ e masmonoriero. 

2. Pobecmu, uso  $\neg A, \neg B, \neg C \vdash \neg (A \rightarrow B) \rightarrow C)$ .

Fuys news, one kame, uso gase gobino
was dopnya P : Q  $\neg P, \neg Q \vdash (P \rightarrow Q)$ Mony,  $\neg A, \neg B, \vdash (A \rightarrow B)$   $A \rightarrow B, \neg C \rightarrow \neg ((A \rightarrow B) \rightarrow C)$