2 P := \(\(\g(x, \f(\f(\pa))) \long 7 \(\g(c, \g)) \)

Universal Herbrand:

a, f(o), f(f(a)), 2(f(f(a))), ----, 2(c,y), 2(2(e,y)), 2(2(e,y)),

Exponsiunea Herbrand:

2(a, f(f(a))) (>) 7 2(c, y)

2(2(a, f(f(a))), f(f(a))) (>) 72(c, y)

2(2(2(a, f(f(a))), f(f(a)), f(f(a))) (>72(c,y)

2(2(2(2(a, f(f(a))), f(f(a))), f(f(a))), f(f(a))), f(f(a)))

Satisficbilitatea:

Terorema lui Herbrand ne spune cà f are un model dacà are un model Herbrand.

O conseciada este cà, daca gasim un termen in

Exp. H. core efols, formula nu e satisfiabili.

Observam cà q(c, f(f(a))) (>72 (c, y) este fals, dec' f.este mesatisfiabilà.

- (4 a)

 coine ([])

 coine ([HI]):
 dog (H), coine (T)
 - b) repora ([],[],[]).

 separa ([AIB],[AIX], Y):-true is dog (A), repora (B, X, Y)

 repora ([AIB], X,[AIY]):-true is cat(A), repora (B, X, Y)
- (N, L).
 genereoza (N, L).

genereora (x, [xIR], R)

genereora (x, [F, R], [F, S]):- (x, R, S).

perm ([xIV], I):- perm (y, w), genereora (x, Z, w).

perm ([], []).

3 b) $G_{0} = 7 \pi (A, X)$ $G_{1} = 7 9(X, Z) \times 7 P(Y, Z)$ $G_{2} = 7 2 9(X, Z)$ $G_{3} = \Box$

 $(2 \text{ cu } \Theta(x) = \text{NA} \text{ si } \Theta(y) = x)$ $(2 \text{ cu } \Theta(x) = \text{a})$ $(2 \text{ cu } \Theta(z) = f(x))$

1 tvg->rvs,7t->p,7p,7>u,5>u+u

1. t vg -> RVS

premisa

2.7 t -> p

premisa

3. 7P

premisa

4. 7 > M

primira

5. S -> M

premisa

impla

6. r

ipoteza

7. M

(>e) 4,6