

Herbrand's Theorem

Exercises

1 Herbrand's Theorem

Exercise 1. Find an unsatisfiable set S of ground instances of clauses in \mathcal{C}_i , for

1. $\mathcal{C}_1 = \{p(x, a, g(x, b)), \neg p(f(y), z, g(f(a), b))\}$
2. $\mathcal{C}_2 = \{p(x), q(x, f(x)) \vee \neg p(x), \neg q(g(y), z)\}$

Try to find the shortest way, if any, to get the set of instances (i.e., the smallest semantic tree).