专业: 人工智能

学号+姓名: 3220103422 刘韬

- 1. 求如下子句集合的消解:
 - a. $\{ [F(x,y), F(y,z)], [\neg F(u,f(u))] \}$
 - b. $\{ [F(x,x), \neg G(x,f(x))], [G(x,y), H(y,z)] \}$
 - c. $\{[F(x,y), \neg F(x,x), G(x,f(x),z)], [\neg G(f(x),x,z), F(x,z)]\}$
- a. $[F(f(u), z)], \{x/u\}\{y/f(u)\}$
- b. $[F(x,x), H(f(x),z)], \{y/f(x)\}$
- c. $[F(x,y), G(x, f(x), x), \neg G(f(x), x, x)]$
- 2. $\diamondsuit S = \{P(f(x)), Q(g(f(x),b),a)\}$ 。 $x H0, H1 \pi H2$ 。

 $H0 = \{a, b\}$

 $H1 = \{a, b, f(a), f(b), g(a, a), g(a, b), g(b, a), g(b, b)\}$

 $H2 = \{f(x)|x \in H1\} \cup \{g(x1,x2)|x1,x2 \in H1\} \cup H1$