

$$D = \{a, fa, ga, ffa \dots\}$$

$$a' = a \quad f'(x) = f(x)$$

$$P(f(\dots), \dots) \text{ true}$$

$$P(g(\dots), \dots) \text{ false}$$

$$P(a, \dots) \text{ false}$$

①

$$\begin{array}{l}
 fga \\
 ffa \\
 P(ffa, a) \\
 P(fga, a) \\
 P(fa, a) \\
 P(f(a), a)
 \end{array}$$

 \Rightarrow

②

$$\begin{array}{l}
 gfa \\
 gfa, fga \\
 gfa, ffa \\
 P(gga, ga) \\
 P(gfa, fa) \\
 P(g(a), a)
 \end{array}$$

$$\forall x P(f(x), a) \Rightarrow \exists x P(g(x), x)$$

$$\Rightarrow \forall x P(f(x), a) \neg \exists x P(g(x), x)$$

a fa ga ffa fga gfa

gga ...