

Unification Solutions

Unify, if possible, the following pairs of predicates:

$$\begin{aligned} &P(g(h(x)), f(g(h(b))), f(x)) \\ &P(y, f(y), z) \end{aligned}$$

$$\{ g(h(b)) / y, b / x, f(b) / z \}$$

$$\begin{aligned} &P(g(h(x)), f(h(y)), y) \\ &P(g(z), f(z), h(a)) \end{aligned}$$

$$\{ h(a) / x, h(a) / y, h(h(a)) / z \}$$

$$\begin{aligned} &P(x, h(b), h(x)) \\ &P(f(g(y)), y, h(f(g(h(a)))) \end{aligned}$$

Does not unify

$$\begin{aligned} &P(x, g(x), z) \\ &P(f(y), g(f(b)), h(y)) \end{aligned}$$

$$\{ f(b) / x, b / y, h(b) / z \}$$

$$\begin{aligned} &P(f(g(x)), g(b), h(x)) \\ &P(f(y), y, h(c)) \end{aligned}$$

Does not unify

$$\begin{aligned} &P(x, h(x), h(y)) \\ &P(f(g(z)), h(f(g(b))), h(z)) \end{aligned}$$

$$\{ f(g(b)) / x, b / z, b / y \}$$