

# l12\_glib\_003 (TMXNfMiag- WoVeZPMX85V7gRRs11T3sVP5Be)

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Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v4\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_numbers : \iota$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v1\_finset\_1 : \iota \Rightarrow o$  be given. Let  $v1\_glib\_000 : \iota \Rightarrow o$  be given. Let  $v2\_glib\_003 : \iota \Rightarrow o$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k9\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $k6\_glib\_003 : \iota \Rightarrow \iota$  be given. Let  $k7\_glib\_000 : \iota \Rightarrow \iota$  be given. Let  $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_glib\_003 : \iota$  be given. Let  $k1\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} \forall X0.((v1\_relat\_1 X0) \wedge ((v4\_relat\_1 X0 k5\_numbers) \wedge ((v1\_funct\_1 \\ X0) \wedge (v1\_finset\_1 X0) \wedge ((v1\_glib\_000 X0) \wedge (v2\_glib\_003 X0)))))) \Rightarrow \quad (1) \\ (k6\_glib\_003 X0 = k1\_funct\_1 X0 k3\_glib\_003) \end{aligned}$$

Assume the following.

$$\begin{aligned} \forall X0.((v1\_relat\_1 X0) \wedge ((v4\_relat\_1 X0 k5\_numbers) \wedge ((v1\_funct\_1 \\ X0) \wedge (v1\_finset\_1 X0)))) \Rightarrow ((v2\_glib\_003 X0) \Leftrightarrow ((k3\_glib\_003 \in k1\_relset\_1 \\ k5\_numbers X0) \wedge (\exists X1.((v1\_relat\_1 X1) \wedge (v1\_funct\_1 X1)) \wedge \\ ((k1\_funct\_1 X0 k3\_glib\_003 = X1) \wedge (r1\_tarski (k9\_xtuple\_0 X1) \\ (k7\_glib\_000 X0)))))) \quad (2) \end{aligned}$$

## Theorem 1

$$\begin{aligned} \forall X0.((v1\_relat\_1 X0) \wedge ((v4\_relat\_1 X0 k5\_numbers) \wedge ((v1\_funct\_1 \\ X0) \wedge (v1\_finset\_1 X0) \wedge ((v1\_glib\_000 X0) \wedge (v2\_glib\_003 X0)))))) \Rightarrow \\ (r1\_tarski (k9\_xtuple\_0 (k6\_glib\_003 X0)) (k7\_glib\_000 X0)) \end{aligned}$$