

t4\_glib\_003  
(TMXxw7zeC3uEtnLbXjtea5TqfnT3NBATnPo)

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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  $v1\_glib\_003 : \iota \Rightarrow o$  be given. Let  $k5\_glib\_003 : \iota \Rightarrow \iota$  be given. Let  $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_glib\_003 : \iota$  be given. Let  $v2\_glib\_003 : \iota \Rightarrow o$  be given. Let  $k6\_glib\_003 : \iota \Rightarrow \iota$  be given. Let  $k3\_glib\_003 : \iota$  be given. Let  $v3\_glib\_003 : \iota \Rightarrow o$  be given. Let  $k7\_glib\_003 : \iota \Rightarrow \iota$  be given. Let  $k4\_glib\_003 : \iota$  be given. Assume the following.

$$\forall X0.((v1\_relat\_1 X0) \wedge ((v4\_relat\_1 X0 k5\_numbers) \wedge ((v1\_funct\_1 X0) \wedge ((v1\_finset\_1 X0) \wedge ((v1\_glib\_000 X0) \wedge (v3\_glib\_003 X0)))))) \Rightarrow (k7\_glib\_003 X0 = k1\_funct\_1 X0 k4\_glib\_003) \quad (1)$$

Assume the following.

$$\forall X0.((v1\_relat\_1 X0) \wedge ((v4\_relat\_1 X0 k5\_numbers) \wedge ((v1\_funct\_1 X0) \wedge ((v1\_finset\_1 X0) \wedge ((v1\_glib\_000 X0) \wedge (v2\_glib\_003 X0)))))) \Rightarrow (k6\_glib\_003 X0 = k1\_funct\_1 X0 k3\_glib\_003) \quad (2)$$

Assume the following.

$$\forall X0.((v1\_relat\_1 X0) \wedge ((v4\_relat\_1 X0 k5\_numbers) \wedge ((v1\_funct\_1 X0) \wedge ((v1\_finset\_1 X0) \wedge ((v1\_glib\_000 X0) \wedge (v1\_glib\_003 X0)))))) \Rightarrow (k5\_glib\_003 X0 = k1\_funct\_1 X0 k2\_glib\_003) \quad (3)$$

**Theorem 1**

$$\begin{aligned} & (\forall X0.((v1\_relat\_1 X0) \wedge ((v4\_relat\_1 X0 k5\_numbers) \wedge ((v1\_funct\_1 X0) \wedge ((v1\_finset\_1 X0) \wedge ((v1\_glib\_000 X0) \wedge (v1\_glib\_003 X0)))))) \Rightarrow (k5\_glib\_003 X0 = k1\_funct\_1 X0 k2\_glib\_003)) \wedge ((\forall X0. \\ & ((v1\_relat\_1 X0) \wedge ((v4\_relat\_1 X0 k5\_numbers) \wedge ((v1\_funct\_1 X0) \wedge ((v1\_finset\_1 X0) \wedge ((v1\_glib\_000 X0) \wedge (v2\_glib\_003 X0)))))) \Rightarrow \\ & (k6\_glib\_003 X0 = k1\_funct\_1 X0 k3\_glib\_003)) \wedge (\forall X0.((v1\_relat\_1 X0) \wedge ((v4\_relat\_1 X0 k5\_numbers) \wedge ((v1\_funct\_1 X0) \wedge ((v1\_finset\_1 X0) \wedge ((v1\_glib\_000 X0) \wedge (v3\_glib\_003 X0)))))) \Rightarrow (k7\_glib\_003 X0 = \\ & k1\_funct\_1 X0 k4\_glib\_003))) \end{aligned}$$