

t63\_glib\_000

(TMFchZCkR44Y4YxGh6z7rP9FGYiAs2cxQ9h)

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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  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k6\_glib\_000 : \iota \Rightarrow \iota$  be given. Let  $r1\_glib\_000 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k26\_glib\_000 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k27\_glib\_000 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k7\_glib\_000 : \iota \Rightarrow \iota$  be given. Let  $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k10\_glib\_000 : \iota \Rightarrow \iota$  be given. Let  $k11\_glib\_000 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} \forall X0. ((v1\_relat\_1 X0) \wedge ((v4\_relat\_1 X0 k5\_numbers) \wedge ((v1\_funct\_1 \\ X0) \wedge ((v1\_finset\_1 X0) \wedge (v1\_glib\_000 X0)))))) \Rightarrow (\forall X1. (m1\_subset\_1 \\ X1 (k6\_glib\_000 X0)) \Rightarrow (\forall X2. (X2 \in k27\_glib\_000 X0 X1) \Leftrightarrow ((X2 \in \\ k7\_glib\_000 X0) \wedge (k1\_funct\_1 (k10\_glib\_000 X0) X2 = X1)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. ((v1\_relat\_1 X0) \wedge ((v4\_relat\_1 X0 k5\_numbers) \wedge ((v1\_funct\_1 \\ X0) \wedge ((v1\_finset\_1 X0) \wedge (v1\_glib\_000 X0)))))) \Rightarrow (\forall X1. (m1\_subset\_1 \\ X1 (k6\_glib\_000 X0)) \Rightarrow (\forall X2. (X2 \in k26\_glib\_000 X0 X1) \Leftrightarrow ((X2 \in \\ k7\_glib\_000 X0) \wedge (k1\_funct\_1 (k11\_glib\_000 X0) X2 = X1)))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0. ((v1\_relat\_1 X0) \wedge ((v4\_relat\_1 X0 k5\_numbers) \wedge ((v1\_funct\_1 \\ X0) \wedge ((v1\_finset\_1 X0) \wedge (v1\_glib\_000 X0)))))) \Rightarrow (\forall X1. \forall X2. \\ \forall X3. (r1\_glib\_000 X0 X1 X2 X3) \Leftrightarrow ((X3 \in k7\_glib\_000 X0) \wedge (( \\ k1\_funct\_1 (k10\_glib\_000 X0) X3 = X1) \wedge (k1\_funct\_1 (k11\_glib\_000 \\ X0) X3 = X2)) \vee ((k1\_funct\_1 (k10\_glib\_000 X0) X3 = X2) \wedge (k1\_funct\_1 \\ (k11\_glib\_000 X0) X3 = X1)))))) \end{aligned} \quad (3)$$

**Theorem 1**

$$\begin{aligned} \forall X0.((v1\_relat\_1 X0) \wedge ((v4\_relat\_1 X0 k5\_numbers) \wedge ((v1\_funct\_1 \\ X0) \wedge ((v1\_finset\_1 X0) \wedge (v1\_glib\_000 X0)))))) \Rightarrow (\forall X1. \forall X2. \\ (m1\_subset\_1 X2 (k6\_glib\_000 X0)) \Rightarrow (\forall X3. (m1\_subset\_1 X3 \\ (k6\_glib\_000 X0)) \Rightarrow (\neg(r1\_glib\_000 X0 X2 X3 X1) \wedge ((\neg(X1 \in k26\_glib\_000 \\ X0 X2) \wedge (X1 \in k27\_glib\_000 X0 X3)) \wedge (\neg(X1 \in k26\_glib\_000 X0 X3) \wedge (X1 \in \\ k27\_glib\_000 X0 X2))))))) \end{aligned}$$