

t60\_glib\_000 (TM-  
SEN3VTEkzqY6BVEL4iYTTbDVKFdLqdpfU)

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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  $k28\_glib\_000 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k7\_glib\_000 : \iota \Rightarrow \iota$  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  $k20\_glib\_000 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_domain\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k19\_glib\_000 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k18\_glib\_000 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0.((v1\_relat\_1 X0) \wedge ((v4\_relat\_1 X0 k5\_numbers) \wedge ((v1\_funct\_1 \\ & X0) \wedge ((v1\_finset\_1 X0) \wedge (v1\_glib\_000 X0)))))) \Rightarrow (\forall X1.(m1\_subset\_1 \\ & X1 (k6\_glib\_000 X0)) \Rightarrow (k28\_glib\_000 X0 X1 = k20\_glib\_000 X0 (k6\_domain\_1 \\ & (k6\_glib\_000 X0) X1))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1\_relat\_1 X0) \wedge ((v4\_relat\_1 X0 k5\_numbers) \wedge ((v1\_funct\_1 \\ & X0) \wedge ((v1\_finset\_1 X0) \wedge (v1\_glib\_000 X0)))))) \Rightarrow (\forall X1.(m1\_subset\_1 \\ & X1 (k6\_glib\_000 X0)) \Rightarrow (k27\_glib\_000 X0 X1 = k19\_glib\_000 X0 (k6\_domain\_1 \\ & (k6\_glib\_000 X0) X1))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1\_relat\_1 X0) \wedge ((v4\_relat\_1 X0 k5\_numbers) \wedge ((v1\_funct\_1 \\ & X0) \wedge ((v1\_finset\_1 X0) \wedge (v1\_glib\_000 X0)))))) \Rightarrow (\forall X1.(m1\_subset\_1 \\ & X1 (k6\_glib\_000 X0)) \Rightarrow (k26\_glib\_000 X0 X1 = k18\_glib\_000 X0 (k6\_domain\_1 \\ & (k6\_glib\_000 X0) X1))) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1\_relat\_1 X0) \wedge ((v4\_relat\_1 X0 k5\_numbers) \wedge ((v1\_funct\_1 \\ & X0) \wedge ((v1\_finset\_1 X0) \wedge (v1\_glib\_000 X0)))))) \Rightarrow (\forall X1. k20\_glib\_000 \\ & X0 X1 = k4\_subset\_1 (k7\_glib\_000 X0) (k18\_glib\_000 X0 X1) (k19\_glib\_000 \\ & X0 X1)) \end{aligned} \tag{4}$$

**Theorem 1**

$$\begin{aligned} & \forall X0.((v1\_relat\_1 X0) \wedge ((v4\_relat\_1 X0 k5\_numbers) \wedge ((v1\_funct\_1 \\ & X0) \wedge ((v1\_finset\_1 X0) \wedge (v1\_glib\_000 X0)))))) \Rightarrow (\forall X1. (m1\_subset\_1 \\ & X1 (k6\_glib\_000 X0)) \Rightarrow (k28\_glib\_000 X0 X1 = k4\_subset\_1 (k7\_glib\_000 \\ & X0) (k26\_glib\_000 X0 X1) (k27\_glib\_000 X0 X1))) \end{aligned}$$