

t49_glib_003

(TMSA1QEK6rFe9uQ69JYc7aw9oEAEo1gPt7u)

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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 $v3_glib_003 : \iota \Rightarrow o$ be given. Let $k11_glib_003 : \iota \Rightarrow \iota$ be given. Let $k13_glib_003 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_glib_003 : \iota \Rightarrow \iota$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.((v1_relat_1 X0) \wedge ((v4_relat_1 X0 k5_numbers) \wedge ((v1_funct_1 \\ X0) \wedge ((v1_finset_1 X0) \wedge ((v1_glib_000 X0) \wedge ((v2_glib_003 X0) \wedge \\ (v3_glib_003 X0))))))) \Rightarrow (\forall X1. \forall X2. k6_glib_003 X0 = \\ k6_glib_003 (k13_glib_003 X0 X1 X2)) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. \forall X2. ((v1_relat_1 X0) \wedge ((v4_relat_1 \\ X0 k5_numbers) \wedge ((v1_funct_1 X0) \wedge ((v1_finset_1 X0) \wedge ((v1_glib_000 \\ X0) \wedge ((v2_glib_003 X0) \wedge (v3_glib_003 X0))))))) \Rightarrow ((v1_relat_1 \\ (k13_glib_003 X0 X1 X2)) \wedge ((v4_relat_1 (k13_glib_003 X0 X1 X2) k5_numbers) \wedge \\ ((v1_funct_1 (k13_glib_003 X0 X1 X2)) \wedge ((v1_finset_1 (k13_glib_003 \\ X0 X1 X2)) \wedge ((v1_glib_000 (k13_glib_003 X0 X1 X2)) \wedge ((v2_glib_003 \\ (k13_glib_003 X0 X1 X2)) \wedge (v3_glib_003 (k13_glib_003 X0 X1 X2)))))))))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. \forall X2. ((v1_relat_1 X0) \wedge ((v4_relat_1 \\ X0 k5_numbers) \wedge ((v1_funct_1 X0) \wedge ((v1_finset_1 X0) \wedge ((v1_glib_000 \\ X0) \wedge (v3_glib_003 X0)))))) \Rightarrow ((v1_relat_1 (k13_glib_003 X0 X1 X2)) \wedge \\ ((v4_relat_1 (k13_glib_003 X0 X1 X2) k5_numbers) \wedge ((v1_funct_1 \\ (k13_glib_003 X0 X1 X2)) \wedge ((v1_finset_1 (k13_glib_003 X0 X1 X2)) \wedge \\ ((v1_glib_000 (k13_glib_003 X0 X1 X2)) \wedge (v3_glib_003 (k13_glib_003 \\ X0 X1 X2)))))))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0. ((v1_relat_1 X0) \wedge ((v4_relat_1 X0 k5_numbers) \wedge ((v1_funct_1 \\ X0) \wedge ((v1_finset_1 X0) \wedge ((v1_glib_000 X0) \wedge (v2_glib_003 X0)))))) \Rightarrow \\ (k11_glib_003 X0 = k9_xtuple_0 (k6_glib_003 X0)) \end{aligned} \quad (4)$$

Theorem 1

$$\begin{aligned} \forall X0.((v1_relat_1 X0) \wedge ((v4_relat_1 X0 \ k5_numbers) \wedge ((v1_funct_1 \\ X0) \wedge ((v1_finset_1 X0) \wedge ((v1_glib_000 X0) \wedge ((v2_glib_003 X0) \wedge \\ (v3_glib_003 X0)))))) \Rightarrow (\forall X1. \forall X2. k11_glib_003 \\ X0 = k11_glib_003 (k13_glib_003 X0 X1 X2)) \end{aligned}$$