

t50_glib_001

(TMdDXj8PEx8Nu2PgSsU3ah7GyZf6Vcv2PgH)

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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 $m3_glib_001 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_glib_001 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k20_glib_001 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_glib_001 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. (((v1_relat_1 X0) \wedge \\ & ((v4_relat_1 X0 k5_numbers) \wedge ((v1_funct_1 X0) \wedge ((v1_finset_1 \\ & X0) \wedge (v1_glib_000 X0)))))) \wedge ((m3_glib_001 X1 X0) \wedge ((m1_subset_1 \\ & X2 k5_numbers) \wedge (m1_subset_1 X3 k5_numbers)))) \Rightarrow (k20_glib_001 \\ & X0 X1 X2 X3 = k9_glib_001 X0 X1 X2 X3) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. (((v1_relat_1 X0) \wedge ((v4_relat_1 X0 k5_numbers) \wedge ((v1_funct_1 \\ & X0) \wedge ((v1_finset_1 X0) \wedge (v1_glib_000 X0)))))) \Rightarrow (\forall X1. (m3_glib_001 \\ & X1 X0) \Rightarrow (\forall X2. (m1_subset_1 X2 k5_numbers) \Rightarrow (\forall X3. (\\ & m1_subset_1 X3 k5_numbers) \Rightarrow (\forall X4. \forall X5. (r1_glib_001 \\ & X0 X4 X5 X1) \Rightarrow (r1_glib_001 X0 X4 X5 (k9_glib_001 X0 X1 X2 X3)))))) \end{aligned} \quad (2)$$

Theorem 1

$$\begin{aligned} & \forall X0. (((v1_relat_1 X0) \wedge ((v4_relat_1 X0 k5_numbers) \wedge ((v1_funct_1 \\ & X0) \wedge ((v1_finset_1 X0) \wedge (v1_glib_000 X0)))))) \Rightarrow (\forall X1. (m3_glib_001 \\ & X1 X0) \Rightarrow (\forall X2. \forall X3. \forall X4. (m1_subset_1 X4 k5_numbers) \Rightarrow \\ & (\forall X5. (m1_subset_1 X5 k5_numbers) \Rightarrow ((r1_glib_001 X0 X2 X3 \\ & X1) \Rightarrow (r1_glib_001 X0 X2 X3 (k20_glib_001 X0 X1 X4 X5)))))) \end{aligned}$$