

t60_glib_001

(TMQrWNpotrdnj24u6u284cjpzYoVQccTd2J)

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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 $v1_abian : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k20_glib_001 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k9_glib_001 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ 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.

$$\begin{aligned} & \forall X0. ((v1_relat_1 X0) \wedge ((v4_relat_1 X0 k5_numbers) \wedge ((v1_funct_1 \\ & X0) \wedge ((v1_finset_1 X0) \wedge (v1_glib_000 X0)))))) \Rightarrow (\forall X1. (m3_glib_001 \\ & X1 X0) \Rightarrow (\forall X2. ((\neg v1_abian X2) \wedge (m1_subset_1 X2 k5_numbers)) \Rightarrow \\ & (\forall X3. ((\neg v1_abian X3) \wedge (m1_subset_1 X3 k5_numbers)) \Rightarrow (\forall X4. \\ & (m1_subset_1 X4 k5_numbers) \Rightarrow (\neg (X4 \in k1_relset_1 k5_numbers (k9_glib_001 \\ & X0 X1 X2 X3)) \wedge ((\neg X4 \in k2_finseq_1 X2) \wedge (\neg (r1_xxreal_0 X2 X4) \wedge (r1_xxreal_0 \\ & X4 (k3_finseq_1 (k9_glib_001 X0 X1 X2 X3)))))))))) \end{aligned} \quad (2)$$

Theorem 1

$$\begin{aligned} & \forall X0.((v1_relat_1 X0) \wedge ((v4_relat_1 X0 k5_numbers) \wedge ((v1_funct_1 \\ & X0) \wedge ((v1_finset_1 X0) \wedge (v1_glib_000 X0)))))) \Rightarrow (\forall X1.(m3_glib_001 \\ & X1 X0) \Rightarrow (\forall X2.((\neg v1_abian X2) \wedge (m1_subset_1 X2 k5_numbers)) \Rightarrow \\ & (\forall X3.((\neg v1_abian X3) \wedge (m1_subset_1 X3 k5_numbers)) \Rightarrow (\forall X4. \\ & (m1_subset_1 X4 k5_numbers) \Rightarrow (\neg(r1_xxreal_0 X2 X3) \wedge ((r1_xxreal_0 \\ & X3 (k3_finseq_1 X1)) \wedge ((k1_funct_1 X1 X2 = k1_funct_1 X1 X3) \wedge ((X4 \in \\ & k1_relset_1 k5_numbers (k20_glib_001 X0 X1 X2 X3)) \wedge ((\neg X4 \in k2_finseq_1 \\ & X2) \wedge (\neg(r1_xxreal_0 X2 X4) \wedge (r1_xxreal_0 X4 (k3_finseq_1 (k20_glib_001 \\ & X0 X1 X2 X3)))))))))))))) \end{aligned}$$