

l86_glib_001

(TMJswCh9vL1wFz9GXwp6LbepXyv33YLZzQq)

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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 $k17_glib_001 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$k5_numbers = k4_ordinal1 \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (((v1_relat_1 X0) \wedge ((v4_relat_1 \\ & X0 k5_numbers) \wedge ((v1_funct_1 X0) \wedge ((v1_finset_1 X0) \wedge (v1_glib_000 \\ & X0)))))) \wedge ((m3_glib_001 X1 X0) \wedge (m1_subset_1 X2 k5_numbers)) \Rightarrow \\ & ((\neg v1_abian (k17_glib_001 X0 X1 X2)) \wedge (m1_subset_1 (k17_glib_001 \\ & X0 X1 X2) k5_numbers)) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. ((v1_relat_1 X0) \wedge ((v4_relat_1 X0 k5_numbers) \wedge ((v1_funct_1 \\ & X0) \wedge ((v1_finset_1 X0) \wedge (v1_glib_000 X0)))))) \Rightarrow (\forall X1. (m3_glib_001 \\ & X1 X0) \Rightarrow (\forall X2. (m1_subset_1 X2 k5_numbers) \Rightarrow (\forall X3. (\\ & (\neg v1_abian X3) \wedge (m1_subset_1 X3 k5_numbers) \Rightarrow (((r1_xxreal_0 \\ & X2 (k3_finseq_1 X1)) \Rightarrow ((v1_abian X2) \vee ((X3 = k17_glib_001 X0 X1 X2) \Leftrightarrow \\ & ((r1_xxreal_0 X3 (k3_finseq_1 X1)) \wedge ((k1_funct_1 X1 X3 = k1_funct_1 \\ & X1 X2) \wedge (\forall X4. ((v7_ordinal1 X4) \wedge (\neg v1_abian X4)) \Rightarrow (((r1_xxreal_0 \\ & X4 (k3_finseq_1 X1)) \wedge (k1_funct_1 X1 X4 = k1_funct_1 X1 X2)) \Rightarrow (r1_xxreal_0 \\ & X3 X4)))))))))) \wedge ((\neg v1_abian X2) \wedge (r1_xxreal_0 X2 (k3_finseq_1 \\ & X1))) \Rightarrow ((X3 = k17_glib_001 X0 X1 X2) \Leftrightarrow (X3 = k3_finseq_1 X1)))))) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0. (m1_subset_1 X0 k4_ordinal1) \Rightarrow (v7_ordinal1 X0) \quad (4)$$

Theorem 1

$$\begin{aligned} \forall X0.((v1_relat_1 X0) \wedge ((v4_relat_1 X0 k5_numbers) \wedge ((v1_funct_1 \\ X0) \wedge ((v1_finset_1 X0) \wedge (v1_glib_000 X0)))))) \Rightarrow (\forall X1.(m3_glib_001 \\ X1 X0) \Rightarrow (\forall X2.((\neg v1_abian X2) \wedge (m1_subset_1 X2 k5_numbers)) \Rightarrow \\ ((r1_xxreal_0 X2 (k3_finseq_1 X1)) \Rightarrow (r1_xxreal_0 (k17_glib_001 \\ X0 X1 X2) X2)))) \end{aligned}$$