

t3_prelamb

(TMdxGvybCvc7tx3veDheKerZeWcTtRwtqAZ)

October 27, 2020

Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $l1_prelamb : \iota \Rightarrow o$ be given. Let $m1_prelamb : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_trees_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k2_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k3_trees_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_finseq_2 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k5_numbers : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k6_prelamb : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k12_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $l1_struct_0 : \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v5_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $v3_trees_2 : \iota \Rightarrow o$ be given. Let $v2_prelamb : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k8_trees_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k2_prelamb : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k1_prelamb : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_3 : \iota$ be given. Let $np_4 : \iota$ be given. Let $np_5 : \iota$ be given. Let $k3_prelamb : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_6 : \iota$ be given. Let $np_7 : \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (m2_finseq_1 X1 X0) \Leftrightarrow (m1_finseq_1 X1 X0) \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (((\neg v2_struct_0 X0) \wedge (l1_prelamb \\ & X0)) \wedge ((m1_finseq_1 X1 (u1_struct_0 X0)) \wedge (m1_subset_1 X2 (u1_struct_0 \\ & X0)))) \Rightarrow (k6_prelamb X0 X1 X2 = k4_tarski X1 X2) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge (l1_struct_0 X0)) \Rightarrow (\neg v1_xboole_0 (u1_struct_0 X0)) \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge (l1_prelamb X0)) \Rightarrow (\forall X1. \\ & (m1_prelamb X1 X0) \Rightarrow ((v1_relat_1 X1) \wedge ((v5_relat_1 X1 (k2_zfmisc_1 \\ & (k2_zfmisc_1 (k3_finseq_2 (u1_struct_0 X0)) (u1_struct_0 X0)) \\ & k5_numbers)) \wedge ((v1_funct_1 X1) \wedge ((v1_finset_1 X1) \wedge (v3_trees_2 \\ & X1)))))) \end{aligned} \tag{4}$$

Assume the following.

$$\forall X0. (l1_prelamb X0) \Rightarrow (l1_struct_0 X0) \tag{5}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((\neg v1_xboole_0 X0) \wedge (m1_subset_1 X1 X0)) \Rightarrow \\ & (m2_finseq_1 (k12_finseq_1 X0 X1) X0) \end{aligned} \tag{6}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((\neg v2_struct_0 X0) \wedge (l1_prelamb X0)) \Rightarrow (\forall X1. \\
& ((v1_relat_1 X1) \wedge ((v5_relat_1 X1 (k2_zfmisc_1 (k2_zfmisc_1 (\\
& k3_finseq_2 (u1_struct_0 X0)) (u1_struct_0 X0)) k5_numbers)) \wedge \\
& ((v1_funct_1 X1) \wedge ((v1_finset_1 X1) \wedge (v3_trees_2 X1)))))) \Rightarrow ((m1_prelamb \\
& X1 X0) \Leftrightarrow ((v1_finset_1 (k9_xtuple_0 X1)) \wedge (\forall X2.(m1_trees_1 \\
& X2 (k9_xtuple_0 X1)) \Rightarrow (v2_prelamb X2 X0 X1))))))
\end{aligned} \tag{8}$$

Theorem 1

$$\begin{aligned}
& \forall X0.((\neg v2_struct_0 X0) \wedge (l1_prelamb X0)) \Rightarrow (\forall X1. \\
& (m1_prelamb X1 X0) \Rightarrow (\forall X2.(m1_trees_1 X2 (k9_xtuple_0 X1)) \Rightarrow \\
& (\neg(k2_xtuple_0 (k3_trees_2 (k2_zfmisc_1 (k2_zfmisc_1 (k3_finseq_2 \\
& (u1_struct_0 X0)) (u1_struct_0 X0)) k5_numbers) X1 X2) = k6_numbers) \wedge \\
& (\forall X3.(m1_subset_1 X3 (u1_struct_0 X0)) \Rightarrow (k1_xtuple_0 (\\
& k3_trees_2 (k2_zfmisc_1 (k2_zfmisc_1 (k3_finseq_2 (u1_struct_0 \\
& X0)) (u1_struct_0 X0)) k5_numbers) X1 X2) \neq k6_prelamb X0 (k12_finseq_1 \\
& (u1_struct_0 X0) X3) X3))))))
\end{aligned}$$