

t26_trees_2
(TMK7SGHRq2xggSVbjtx4CyPaD2nALV8xfZK)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_trees_1 : \iota \Rightarrow o$ be given. Let $v2_trees_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_trees_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $r1_tarSKI : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $k1_tarSKI : \iota \Rightarrow \iota$ be given. Let $k1_trees_1 : \iota \Rightarrow \iota$ be given. Let $r2_xboole_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. \neg (X0 \in X1) \wedge (v1_xboole_0 X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarSKI X0 X1) \quad (2)$$

Assume the following.

$$\forall X0. r1_tarSKI k1_xboole_0 X0 \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v1_xboole_0 X0) \wedge (v1_trees_1 X0)) \Rightarrow (\forall X1. \\ & (m2_finseq_1 X1 k5_numbers) \Rightarrow (\forall X2. (m2_finseq_1 X2 k5_numbers) \Rightarrow \\ & (\forall X3. ((v2_trees_2 X3 X0) \wedge (m1_trees_2 X3 X0)) \Rightarrow (((r1_tarSKI \\ & X1 X2) \wedge (X2 \in X3)) \Rightarrow (X1 \in X3)))))) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0. ((\neg v1_xboole_0 X0) \wedge (v1_trees_1 X0)) \Rightarrow (m1_trees_2 (k1_tarSKI k1_xboole_0) X0) \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. ((\neg v1_xboole_0 X1) \wedge (v1_trees_1 X1)) \Rightarrow (X0 \in X1) \Rightarrow (m2_finseq_1 X0 k5_numbers) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.(r1_tarski (k1_tarski X0) X1)\Leftrightarrow(X0 \in X1) \quad (7)$$

Assume the following.

$$\forall X0.((\neg v1_xboole_0 X0)\wedge(v1_trees_1 X0))\Rightarrow(\forall X1. (m1_trees_2 X1 X0)\Rightarrow(m1_subset_1 X1 (k1_zfmisc_1 X0))) \quad (8)$$

Assume the following.

$$\begin{aligned} &\forall X0.((\neg v1_xboole_0 X0)\wedge(v1_trees_1 X0))\Rightarrow(\forall X1. \\ &(m1_trees_2 X1 X0)\Rightarrow((v2_trees_2 X1 X0)\Leftrightarrow((\forall X2.(m2_finseq_1 \\ &X2 k5_numbers)\Rightarrow((X2 \in X1)\Rightarrow(r1_tarski (k1_trees_1 X2) X1))))\wedge(\forall X2. \\ &(m2_finseq_1 X2 k5_numbers)\Rightarrow(\neg(X2 \in X0)\wedge(\forall X3.(m2_finseq_1 \\ &X3 k5_numbers)\Rightarrow((X3 \in X1)\Rightarrow(r2_xboole_0 X3 X2)))))))) \quad (9) \end{aligned}$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0)\Leftrightarrow(\forall X1.\neg X1 \in X0) \quad (10)$$

Theorem 1

$$\forall X0.((\neg v1_xboole_0 X0)\wedge(v1_trees_1 X0))\Rightarrow(\forall X1. ((v2_trees_2 X1 X0)\wedge(m1_trees_2 X1 X0))\Rightarrow(k1_xboole_0 \in X1))$$