

t19_trees_1

(TMd7H9iPm6y8wVK7ZBTo7kfa2oHQM82vUEP)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_trees_1 : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $k3_finseq_2 : \iota \Rightarrow \iota$ be given. Let $k13_finseq_1 : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_trees_1 : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k8_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k12_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$k5_numbers = k4_ordinal1 \tag{1}$$

Assume the following.

$$\forall X0. k3_finseq_2 X0 = k13_finseq_1 X0 \tag{2}$$

Assume the following.

$$\begin{aligned} \forall X0. (v1_trees_1 X0) \Leftrightarrow & ((r1_tarski X0 (k3_finseq_2 k5_numbers)) \wedge \\ & ((\forall X1. (m2_finseq_1 X1 k5_numbers) \Rightarrow ((X1 \in X0) \Rightarrow (r1_tarski \\ & (k1_trees_1 X1) X0))) \wedge (\forall X1. (m2_finseq_1 X1 k5_numbers) \Rightarrow \\ & (\forall X2. (m1_subset_1 X2 k5_numbers) \Rightarrow (\forall X3. (m1_subset_1 \\ & X3 k5_numbers) \Rightarrow (((k8_finseq_1 k5_numbers X1 (k12_finseq_1 k5_numbers \\ & X2) \in X0) \wedge (r1_xxreal_0 X3 X2)) \Rightarrow (k8_finseq_1 k5_numbers X1 (k12_finseq_1 \\ & k5_numbers X3) \in X0))))))))) \end{aligned} \tag{3}$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \tag{4}$$

Assume the following.

$$\forall X0. \forall X1. (X1 = k13_finseq_1 X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (m2_finseq_1 X2 X0)) \tag{5}$$

Theorem 1

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