

t50_trees_1

(TMU4b8udwNVS2y4GyAUAxLdMJd9zKtCjJdu)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k12_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_finseq_1 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k5_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. ((v1_relat_1 X1) \wedge ((v1_funct_1 X1) \wedge (v1_finseq_1 X1))) \Rightarrow (k1_funct_1 (k7_finseq_1 (k9_finseq_1 X0) X1) np_1 = X0) \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. ((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow \\ (\forall X1. ((v1_relat_1 X1) \wedge ((v1_funct_1 X1) \wedge (v1_finseq_1 X1))) \Rightarrow \\ (r1_tarski X0 X1) \Leftrightarrow (\exists X2. ((v1_relat_1 X2) \wedge ((v1_funct_1 X2) \wedge (v1_finseq_1 X2)))) \wedge (X1 = k7_finseq_1 X0 X2))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. k9_finseq_1 X0 = k5_finseq_1 X0 \quad (3)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. ((\neg v1_xboole_0 X0) \wedge (m1_subset_1 X1 X0)) \Rightarrow (k12_finseq_1 X0 X1 = k5_finseq_1 X1) \quad (5)$$

Assume the following.

$$\forall X0. v1_finseq_1 (k5_finseq_1 X0) \quad (6)$$

Assume the following.

$$(\neg v1_xboole_0\ k4_ordinal1) \wedge (v3_ordinal1\ k4_ordinal1) \quad (7)$$

Assume the following.

$$\forall X0.(v1_relat_1\ (k5_finseq_1\ X0)) \wedge (v1_funct_1\ (k5_finseq_1\ X0)) \quad (8)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.(((v1_relat_1\ X0) \wedge ((v1_funct_1\ X0) \wedge (v1_finseq_1\ X0))) \wedge ((v1_relat_1\ X1) \wedge ((v1_funct_1\ X1) \wedge (v1_finseq_1\ X1)))) \Rightarrow \\ ((v1_relat_1\ (k7_finseq_1\ X0\ X1)) \wedge ((v1_funct_1\ (k7_finseq_1\ X0\ X1)) \wedge (v1_finseq_1\ (k7_finseq_1\ X0\ X1)))) \end{aligned} \quad (9)$$

Theorem 1

$$\begin{aligned} \forall X0.(m1_subset_1\ X0\ k5_numbers) \Rightarrow (\forall X1.(m1_subset_1\ X1\ k5_numbers) \Rightarrow (\forall X2.((v1_relat_1\ X2) \wedge ((v1_funct_1\ X2) \wedge (v1_finseq_1\ X2)))) \Rightarrow (\neg(X0 \neq X1) \wedge (r1_tarski\ (k12_finseq_1\ k5_numbers\ X0)\ (k7_finseq_1\ (k12_finseq_1\ k5_numbers\ X1)\ X2)))) \end{aligned}$$