

t3_trees_a
(TMWrVKaC29XkktwCRmSnQz7xoyLxtsTAiBD)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_trees_1 : \iota \Rightarrow o$ be given. Let $m4_trees_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_trees_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $r2_xboole_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. (r2_xboole_0 X0 X1) \Leftrightarrow ((r1_tarski X0 X1) \wedge (X0 \neq X1)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (2)$$

Theorem 1

$$\begin{aligned} & \forall X0. ((\neg v1_xboole_0 X0) \wedge (v1_trees_1 X0)) \Rightarrow (\forall X1. \\ & (m4_trees_1 X1 X0) \Rightarrow (r1_tarski (ReplSep (toset (\lambda X2 : \iota. m1_trees_1 \\ & X2 X0)) (\lambda X2 : \iota. \forall X3. (m2_finseq_1 X3 k5_numbers) \Rightarrow (\\ & \neg (X3 \in X1) \wedge (r1_tarski X3 X2))) (\lambda X2 : \iota. X2)) (ReplSep (toset \\ & (\lambda X2 : \iota. m1_trees_1 X2 X0)) (\lambda X2 : \iota. \forall X3. (m2_finseq_1 \\ & X3 k5_numbers) \Rightarrow (\neg (X3 \in X1) \wedge (r2_xboole_0 X3 X2))) (\lambda X2 : \iota. \\ & X2)))) \end{aligned}$$