

t12_trees_2 (TMY- cfkm4wZvVBfaMWzxTrxoS8QewJZCLLgR)

October 27, 2020

Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_trees_1 : \iota \Rightarrow o$ be given. Let $m1_trees_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $k8_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k12_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_trees_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((\neg v1_xboole_0 X0) \wedge (v1_trees_1 X0)) \Rightarrow (\forall X1. \\ & (m1_trees_1 X1 X0) \Rightarrow (k1_trees_2 X0 X1 = ReplSep (toset (\lambda X2 : \iota. \\ & m2_subset_1 X2 k1_numbers k5_numbers)) (\lambda X2 : \iota. k8_finseq_1 \\ & k5_numbers X1 (k12_finseq_1 k5_numbers X2) \in X0) (\lambda X2 : \iota. k8_finseq_1 \\ & k5_numbers X1 (k12_finseq_1 k5_numbers X2)))) \end{aligned} \tag{1}$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v1_xboole_0 X0) \wedge (v1_trees_1 X0)) \Rightarrow (\forall X1. \\ & (m1_trees_1 X1 X0) \Rightarrow (\forall X2. (m2_subset_1 X2 k1_numbers k5_numbers) \Rightarrow \\ & ((k8_finseq_1 k5_numbers X1 (k12_finseq_1 k5_numbers X2) \in k1_trees_2 \\ & X0 X1) \Leftrightarrow (k8_finseq_1 k5_numbers X1 (k12_finseq_1 k5_numbers X2) \in \\ & X0)))) \end{aligned}$$