

t7_trees_3
 (TMPC4qULEdWqdw3TSbxVeCcKQhmHCEnEH62)

October 27, 2020

Let $v2_trees_3 : \iota \Rightarrow o$ be given. Let $k5_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $v1_trees_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. (X0 \in k5_xboole_0 X1 X2) \Leftrightarrow (\neg(X0 \in X1) \Leftrightarrow (X0 \in X2)) \quad (1)$$

Assume the following.

$$\forall X0. (v2_trees_3 X0) \Leftrightarrow (\forall X1. (X1 \in X0) \Rightarrow ((\neg v1_xboole_0 X1) \wedge ((v1_finset_1 X1) \wedge (v1_trees_1 X1)))) \quad (2)$$

Theorem 1

$$\forall X0. \forall X1. ((v2_trees_3 X0) \wedge (v2_trees_3 X1)) \Rightarrow (v2_trees_3 (k5_xboole_0 X0 X1))$$