

t24_trees_1 (TMaXRSTqe-
cEavAQ7LM4dRQTXe9gW3nKNSgN)

October 27, 2020

Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_trees_1 : \iota \Rightarrow o$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (\neg v1_xboole_0 X0) \Rightarrow (\neg v1_xboole_0 (k2_xboole_0 X0 X1)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (((\neg v1_xboole_0 X0) \wedge (v1_trees_1 X0)) \wedge ((\neg v1_xboole_0 X1) \wedge (v1_trees_1 X1))) \Rightarrow (v1_trees_1 (k2_xboole_0 X0 X1)) \quad (2)$$

Theorem 1

$$\forall X0. ((\neg v1_xboole_0 X0) \wedge (v1_trees_1 X0)) \Rightarrow (\forall X1. ((\neg v1_xboole_0 X1) \wedge (v1_trees_1 X1)) \Rightarrow ((\neg v1_xboole_0 (k2_xboole_0 X0 X1)) \wedge (v1_trees_1 (k2_xboole_0 X0 X1))))$$