

t9_trees_9 (TMMoRuYhmKyus- GhdFBe57iAg89mwCnxhFkg)

October 27, 2020

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. Let $m1_trees_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_trees_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_trees_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0. (&(\neg v1_xboole_0 X0) \wedge ((v1_finset_1 X0) \wedge (v1_trees_1 \\ X0))) \Rightarrow &(\forall X1. (m1_trees_1 X1 X0) \Rightarrow (\neg (X1 \neq k1_xboole_0) \wedge (r1_xxreal_0 \\ &(k6_trees_1 X0) (k6_trees_1 (k4_trees_1 X0 X1)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. (&(\neg v1_xboole_0 X0) \wedge ((v1_finset_1 X0) \wedge (v1_trees_1 \\ X0))) \Rightarrow &(\forall X1. (m1_trees_1 X1 X0) \Rightarrow (r1_xxreal_0 (k6_trees_1 \\ &(k4_trees_1 X0 X1)) (k6_trees_1 X0))) \end{aligned} \quad (2)$$

Theorem 1

$$\begin{aligned} \forall X0. (&(\neg v1_xboole_0 X0) \wedge ((v1_finset_1 X0) \wedge (v1_trees_1 \\ X0))) \Rightarrow &(\forall X1. (m1_trees_1 X1 X0) \Rightarrow ((X0 = k4_trees_1 X0 X1) \Rightarrow \\ &(X1 = k1_xboole_0))) \end{aligned}$$