

t21_trees_3 (TMHDRrbSRm- jamU1c9H6Pc1a6R6ozzEW27Av)

October 27, 2020

Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_trees_3 : \iota \Rightarrow \iota$ be given. Let $m1_trees_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v5_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v3_trees_2 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(\neg v1_xboole_0 X0) \Rightarrow (\forall X1.(m1_trees_3 X1 X0) \Rightarrow (\neg v1_xboole_0 X1)) \quad (1)$$

Assume the following.

$$\forall X0.(\neg v1_xboole_0 X0) \Rightarrow (m1_trees_3 (k5_trees_3 X0) X0) \quad (2)$$

Assume the following.

$$\forall X0.(\neg v1_xboole_0 X0) \Rightarrow (m1_trees_3 (k4_trees_3 X0) X0) \quad (3)$$

Assume the following.

$$\forall X0.(\neg v1_xboole_0 X0) \Rightarrow (\forall X1.(m1_trees_3 X1 X0) \Rightarrow ((X1 = k4_trees_3 X0) \Leftrightarrow (\forall X2.((v1_relat_1 X2) \wedge ((v5_relat_1 X2 X0) \wedge ((v1_funct_1 X2) \wedge (v3_trees_2 X2)))) \Rightarrow (X2 \in X1)))) \quad (4)$$

Assume the following.

$$\forall X0.(\neg v1_xboole_0 X0) \Rightarrow (\forall X1.(\neg v1_xboole_0 X1) \Rightarrow ((m1_trees_3 X1 X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Rightarrow ((v1_relat_1 X2) \wedge ((v5_relat_1 X2 X0) \wedge ((v1_funct_1 X2) \wedge (v3_trees_2 X2))))))) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.(r1_tarski X0 X1) \Leftrightarrow (\forall X2.(X2 \in X0) \Rightarrow (X2 \in X1)) \quad (6)$$

Theorem 1

$$\forall X0.(\neg v1_xboole_0 X0) \Rightarrow (r1_tarski (k5_trees_3 X0) (k4_trees_3 X0))$$