

t29_trees_3

(TMHjH1A8HFJSMXMyb4wtzE5s39iAW2CRFxb)

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Let $v5_trees_3 : \iota \Rightarrow o$ be given. Let $k9_finseq_1 : \iota \Rightarrow \iota$ 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. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k1_tarSKI : \iota \Rightarrow \iota$ be given. Let $v2_trees_3 : \iota \Rightarrow o$ be given. Let $k5_finseq_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. ((v1_relat_1 X1) \wedge ((v1_funct_1 X1) \wedge (v1_finseq_1 X1))) \Rightarrow ((X1 = k9_finseq_1 X0) \Leftrightarrow ((k3_finseq_1 X1 = np_1) \wedge (k10_xtuple_0 X1 = k1_tarSKI X0))) \quad (1)$$

Assume the following.

$$\forall X0. (v2_trees_3 (k1_tarSKI X0) \Leftrightarrow ((\neg v1_xboole_0 X0) \wedge (v1_finset_1 X0) \wedge (v1_trees_1 X0))) \quad (2)$$

Assume the following.

$$\forall X0. k9_finseq_1 X0 = k5_finseq_1 X0 \quad (3)$$

Assume the following.

$$\forall X0. v1_finseq_1 (k5_finseq_1 X0) \quad (4)$$

Assume the following.

$$\forall X0. (v1_relat_1 (k5_finseq_1 X0) \wedge (v1_funct_1 (k5_finseq_1 X0))) \quad (5)$$

Assume the following.

$$\forall X0. ((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow ((v5_trees_3 X0) \Leftrightarrow (v2_trees_3 (k10_xtuple_0 X0))) \quad (6)$$

Theorem 1

$$\forall X0. (v5_trees_3 (k9_finseq_1 X0) \Leftrightarrow ((\neg v1_xboole_0 X0) \wedge ((v1_finset_1 X0) \wedge (v1_trees_1 X0))))$$