

t9_trees_3

(TMS1RL2STWEmWei1QyTKKCK3UcpNsd8hsxc)

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Let $v3_trees_3 : \iota \Rightarrow o$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v3_trees_2 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v3_trees_3 X0) \Leftrightarrow (\forall X1.(X1 \in X0) \Rightarrow ((v1_relat_1 X1) \wedge ((v1_funct_1 X1) \wedge (v3_trees_2 X1)))) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(X2 = k2_xboole_0 X0 X1) \Leftrightarrow (\forall X3.(X3 \in X2) \Leftrightarrow ((X3 \in X0) \vee (X3 \in X1))) \quad (2)$$

Theorem 1

$$\forall X0.\forall X1.((v3_trees_3 X0) \wedge (v3_trees_3 X1)) \Leftrightarrow (v3_trees_3 (k2_xboole_0 X0 X1))$$