

t14_trees_9 (TMUw-
tiM9V5mNdjETLHfxwywUDwGVZAhbNwi)

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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. Let $k6_trees_9 : \iota \Rightarrow \iota$ be given. Let $m1_trees_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_trees_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v3_trees_2 X0))) \Rightarrow \\ & (k6_trees_9 X0 = ReplSep (toset (\lambda X1 : \iota. m1_trees_1 X1 (k9_xtuple_0 \\ & X0))) (\lambda X1 : \iota. True) (\lambda X1 : \iota. k4_tarski X1 (k5_trees_2 \\ & X0 X1)))) \end{aligned} \tag{1}$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. ((v1_relat_1 X1) \wedge ((v1_funct_1 X1) \wedge (v3_trees_2 \\ & X1))) \Rightarrow ((X0 \in k6_trees_9 X1) \Leftrightarrow (\exists X2. (m1_trees_1 X2 (k9_xtuple_0 \\ & X1)) \wedge (X0 = k4_tarski X2 (k5_trees_2 X1 X2)))) \end{aligned}$$