

t10_trees_9

(TMdiDBqqJkj8BcHJLxGh2ea38D4FC3YXd4P)

October 27, 2020

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 $k3_trees_9 : \iota \Rightarrow \iota$ be given. Let $m1_trees_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k5_trees_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0. ((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v3_trees_2 X0))) \Rightarrow \\ (k3_trees_9 X0 = ReplSep (toset (\lambda X1 : \iota. m1_trees_1 X1 (k9_xtuple_0 \\ X0))) (\lambda X1 : \iota. True) (\lambda X1 : \iota. k5_trees_2 X0 X1))) \end{aligned} \tag{1}$$

Theorem 1

$$\begin{aligned} \forall X0. \forall X1. ((v1_relat_1 X1) \wedge ((v1_funct_1 X1) \wedge (v3_trees_2 \\ X1))) \Rightarrow ((X0 \in k3_trees_9 X1) \Leftrightarrow (\exists X2. (m1_trees_1 X2 (k9_xtuple_0 \\ X1)) \wedge (X0 = k5_trees_2 X1 X2))) \end{aligned}$$