

l5_trees_1

(TMbgrpsZ59skExK8tr3AfN3T3bPtGi1CVZ8)

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Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_card_1 : \iota \Rightarrow \iota$ be given. Let $r2_xboole_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.(v1_finset_1 X0) \Rightarrow (\forall X1.(v1_finset_1 X1) \Rightarrow ((\\ r2_xboole_0 X0 X1) \Rightarrow ((\neg r1_xxreal_0 (k5_card_1 X1) (k5_card_1 X0)) \wedge \\ (k5_card_1 X0 \in k5_card_1 X1)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_finset_1 X0) \Rightarrow (\forall X1.(v1_finset_1 X1) \Rightarrow ((\\ r1_tarski X0 X1) \Rightarrow (r1_xxreal_0 (k5_card_1 X0) (k5_card_1 X1)))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.(r2_xboole_0 X0 X1) \Leftrightarrow ((r1_tarski X0 X1) \wedge \\ (X0 \neq X1)) \end{aligned} \quad (3)$$

Theorem 1

$$\begin{aligned} \forall X0.(v1_finset_1 X0) \Rightarrow (\forall X1.(v1_finset_1 X1) \Rightarrow ((\\ (r1_tarski X0 X1) \wedge (k5_card_1 X0 = k5_card_1 X1)) \Rightarrow (X0 = X1))) \end{aligned}$$