

t4_trees_1 (TMNfo-
VARvC4Y67SdDsaKjZ5nx4iKWfPMPPhE)

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Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $r3_xboole_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_card_1 : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_finset_1 X0) \Rightarrow (\forall X1.(v1_finset_1 X1) \Rightarrow ((r1_tarski X0 X1) \wedge (k5_card_1 X0 = k5_card_1 X1)) \Rightarrow (X0 = X1)) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.(r3_xboole_0 X0 X1) \Leftrightarrow ((r1_tarski X0 X1) \vee (r1_tarski X1 X0)) \quad (2)$$

Theorem 1

$$\forall X0.(v1_finset_1 X0) \Rightarrow (\forall X1.(v1_finset_1 X1) \Rightarrow ((r3_xboole_0 X0 X1) \wedge (k5_card_1 X0 = k5_card_1 X1)) \Rightarrow (X0 = X1))$$