

t1_unialg_3 (TMUejD- KhjTWWG5NAG68fDanan3WbKnbiXDS)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v2_unialg_1 : \iota \Rightarrow o$ be given. Let $v3_unialg_1 : \iota \Rightarrow o$ be given. Let $v4_unialg_1 : \iota \Rightarrow o$ be given. Let $l1_unialg_1 : \iota \Rightarrow o$ be given. Let $k1_unialg_3 : \iota \Rightarrow \iota$ be given. Let $v1_unialg_1 : \iota \Rightarrow o$ be given. Let $m1_unialg_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_unialg_2 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v2_unialg_1 X0) \wedge ((v3_unialg_1 X0) \wedge ((v4_unialg_1 X0) \wedge (l1_unialg_1 X0))))) \Rightarrow (k1_unialg_3 X0 = k9_unialg_2 X0) \quad (1)$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v2_unialg_1 X0) \wedge ((v3_unialg_1 X0) \wedge ((v4_unialg_1 X0) \wedge (l1_unialg_1 X0))))) \Rightarrow (\forall X1. (X1 = k9_unialg_2 X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow ((v1_unialg_1 X2) \wedge (m1_unialg_2 X2 X0)))) \quad (2)$$

Theorem 1

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v2_unialg_1 X0) \wedge ((v3_unialg_1 X0) \wedge ((v4_unialg_1 X0) \wedge (l1_unialg_1 X0))))) \Rightarrow (\forall X1. (X1 = k1_unialg_3 X0) \Leftrightarrow (\exists X2. ((v1_unialg_1 X2) \wedge (m1_unialg_2 X2 X0)) \wedge (X1 = X2)))$$