

t16_unialg_2

(TMX9R9SnYw9UaMfqqE2a2xxetTVbfMX7PjH)

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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 $v2_unialg_2 : \iota \Rightarrow o$ be given. Let $l1_unialg_1 : \iota \Rightarrow o$ be given. Let $m1_unialg_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k6_unialg_2 : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0. ((\neg v2_struct_0 X0) \wedge ((v2_unialg_1 X0) \wedge ((v3_unialg_1 \\ X0) \wedge ((v4_unialg_1 X0) \wedge (l1_unialg_1 X0)))))) \Rightarrow (\forall X1. (m1_unialg_2 \\ X1 X0) \Rightarrow (m1_subset_1 (k6_unialg_2 X0) (k1_zfmisc_1 (u1_struct_0 \\ X1)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. ((\neg v2_struct_0 X0) \wedge ((v2_unialg_1 X0) \wedge ((v3_unialg_1 \\ X0) \wedge ((v4_unialg_1 X0) \wedge ((v2_unialg_2 X0) \wedge (l1_unialg_1 X0)))))) \Rightarrow \\ (\neg v1_xboole_0 (k6_unialg_2 X0)) \end{aligned} \quad (2)$$

Theorem 1

$$\begin{aligned} \forall X0. ((\neg v2_struct_0 X0) \wedge ((v2_unialg_1 X0) \wedge ((v3_unialg_1 \\ X0) \wedge ((v4_unialg_1 X0) \wedge ((v2_unialg_2 X0) \wedge (l1_unialg_1 X0)))))) \Rightarrow \\ (\forall X1. (m1_unialg_2 X1 X0) \Rightarrow ((\neg v1_xboole_0 (k6_unialg_2 \\ X0)) \wedge (m1_subset_1 (k6_unialg_2 X0) (k1_zfmisc_1 (u1_struct_0 \\ X1)))))) \end{aligned}$$