

t1_group_8
(TMNSYG4djzVFYrH8FM7LjtjfPnPL5Cvm69x)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v8_struct_0 : \iota \Rightarrow o$ be given. Let $v15_algstr_0 : \iota \Rightarrow o$ be given. Let $v2_group_1 : \iota \Rightarrow o$ be given. Let $v3_group_1 : \iota \Rightarrow o$ be given. Let $l3_algstr_0 : \iota \Rightarrow o$ be given. Let $v1_int_2 : \iota \Rightarrow o$ be given. Let $k7_group_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k6_group_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_gr_cy_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0. (&(\neg v2_struct_0 X0) \wedge ((v8_struct_0 X0) \wedge ((v15_algstr_0 \\ &X0) \wedge ((v2_group_1 X0) \wedge ((v3_group_1 X0) \wedge (l3_algstr_0 X0)))))) \Rightarrow \\ &((v1_int_2 (k7_group_1 X0)) \Rightarrow ((\neg v2_struct_0 X0) \wedge ((v2_group_1 \\ &X0) \wedge ((v3_group_1 X0) \wedge ((v1_gr_cy_1 X0) \wedge (l3_algstr_0 X0)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. (&(\neg v2_struct_0 X0) \wedge ((v8_struct_0 X0) \wedge ((v2_group_1 \\ &X0) \wedge ((v3_group_1 X0) \wedge (l3_algstr_0 X0)))))) \Rightarrow ((v1_gr_cy_1 X0) \Leftrightarrow \\ &(\exists X1. (m1_subset_1 X1 (u1_struct_0 X0)) \wedge (k6_group_1 X0 \\ &X1 = k7_group_1 X0))) \end{aligned} \quad (2)$$

Theorem 1

$$\begin{aligned} \forall X0. (m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1. (&(\neg v2_struct_0 \\ &X1) \wedge ((v8_struct_0 X1) \wedge ((v15_algstr_0 X1) \wedge ((v2_group_1 X1) \wedge \\ &((v3_group_1 X1) \wedge (l3_algstr_0 X1)))))) \Rightarrow (\neg (v1_int_2 X0) \wedge ((k7_group_1 \\ &X1 = X0) \wedge (\forall X2. (m1_subset_1 X2 (u1_struct_0 X1)) \Rightarrow (k6_group_1 \\ &X1 X2 \neq X0)))))) \end{aligned}$$