

t16_grnilp_1
(TMPnx9txCMZc2WL1EWjBcCNsMkHMkCHi2Gd)

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Let $v2_struct_0 : \iota \Rightarrow o$ 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 $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_grnilp_1 : \iota \Rightarrow \iota$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $k4_finseq_1 : \iota \Rightarrow \iota$ be given. Let $v15_algstr_0 : \iota \Rightarrow o$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_group_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_group_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. (m2_finseq_1 X2 X0) \Rightarrow ((X1 \in k4_finseq_1 X2) \Rightarrow (k1_funct_1 X2 X1 \in X0)) \quad (1)$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v2_group_1 X0) \wedge ((v3_group_1 X0) \wedge (l3_algstr_0 X0)))) \Rightarrow (\forall X1. (X1 = k2_grnilp_1 X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow ((v15_algstr_0 X2) \wedge ((v1_group_3 X2 X0) \wedge (m1_group_2 X2 X0))))) \quad (2)$$

Theorem 1

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v2_group_1 X0) \wedge ((v3_group_1 X0) \wedge (l3_algstr_0 X0)))) \Rightarrow (\forall X1. (m2_finseq_1 X1 (k2_grnilp_1 X0)) \Rightarrow (\forall X2. (m2_subset_1 X2 k1_numbers k5_numbers) \Rightarrow ((X2 \in k4_finseq_1 X1) \Rightarrow ((v15_algstr_0 (k1_funct_1 X1 X2)) \wedge ((v1_group_3 (k1_funct_1 X1 X2) X0) \wedge (m1_group_2 (k1_funct_1 X1 X2) X0)))))$$