

t22_group_6 (TM- cHGm1EGYrR6nJQpSZ4gM87am1G9xaVEGf)

October 27, 2020

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 $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $v1_group_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_group_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k14_group_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_group_6 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13_group_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_group_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k15_group_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k16_group_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. ((X0 \in X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X2))) \Rightarrow (m1_subset_1 X0 X2) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \quad (2)$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v2_group_1 X0) \wedge ((v3_group_1 X0) \wedge (l3_algstr_0 X0)))) \Rightarrow (\forall X1. ((v1_group_3 X1 X0) \wedge (m1_group_2 X1 X0))) \Rightarrow (u1_struct_0 (k5_group_6 X0 X1) = k15_group_2 X0 X1) \quad (3)$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v2_group_1 X0) \wedge ((v3_group_1 X0) \wedge (l3_algstr_0 X0)))) \Rightarrow (\forall X1. (m1_subset_1 X1 (u1_struct_0 X0))) \Rightarrow (\forall X2. ((v1_group_3 X2 X0) \wedge (m1_group_2 X2 X0))) \Rightarrow ((k13_group_2 X0 X2 X1 \in k15_group_2 X0 X2) \wedge (k14_group_2 X0 X2 X1 \in k15_group_2 X0 X2))) \quad (4)$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v2_group_1 X0) \wedge ((v3_group_1 X0) \wedge (l3_algstr_0 X0)))) \Rightarrow (\forall X1. (m1_group_2 X1 X0) \Rightarrow ((k8_group_2 X0 X1 \in k15_group_2 X0 X1) \wedge (k8_group_2 X0 X1 \in k16_group_2 X0 X1))) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.(X0 = X1)\Leftrightarrow((r1_tarski\ X0\ X1)\wedge(r1_tarski\ X1\ X0)) \quad (6)$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v2_struct_0\ X0)\wedge((v2_group_1\ X0)\wedge((v3_group_1 \\ & X0)\wedge(l3_algstr_0\ X0))))\Rightarrow(\forall X1.(m1_subset_1\ X1\ (u1_struct_0 \\ & X0))\Rightarrow(\forall X2.((v1_group_3\ X2\ X0)\wedge(m1_group_2\ X2\ X0))\Rightarrow((m1_subset_1 \\ & (k14_group_2\ X0\ X2\ X1)\ (u1_struct_0\ (k5_group_6\ X0\ X2)))\wedge((m1_subset_1 \\ & (k13_group_2\ X0\ X2\ X1)\ (u1_struct_0\ (k5_group_6\ X0\ X2)))\wedge(m1_subset_1 \\ & (k8_group_2\ X0\ X2)\ (u1_struct_0\ (k5_group_6\ X0\ X2)))))) \end{aligned}$$