

t24_topgen_2 (TMTR- cxM2cSuY4GPg23n3Ec6AR8qMDZEfP36)

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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. Let $k5_topgen_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $k2_pre_topc : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $v4_pre_topc : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2_pre_topc : \iota \Rightarrow o$ be given. Let $v1_pre_topc : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(l1_pre_topc X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow (((v4_pre_topc X1 X0) \Rightarrow (k2_pre_topc X0 X1 = X1)) \wedge (((v2_pre_topc X0) \wedge (k2_pre_topc X0 X1 = X1)) \Rightarrow (v4_pre_topc X1 X0)))) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 (k5_topgen_2 X0 X1)))) \Rightarrow ((v4_pre_topc X2 (k5_topgen_2 X0 X1)) \Leftrightarrow (\neg(X1 \in X0) \wedge (\neg X1 \in X2) \wedge (\neg v1_finset_1 X2))) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(v1_pre_topc (k5_topgen_2 X0 X1)) \wedge (l1_pre_topc (k5_topgen_2 X0 X1)) \quad (3)$$

Theorem 1

$$\forall X0.\forall X1.\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 (k5_topgen_2 X0 X1)))) \Rightarrow ((v1_finset_1 X2) \Rightarrow (k2_pre_topc (k5_topgen_2 X0 X1) X2 = X2))$$