

t7_topalg_5 (TMExeAfB-
MYvNv6bZzmtCUwtVH2ecCrD6mnV)

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Let $v2_pre_topc : \iota \Rightarrow o$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ 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. Let $g1_pre_topc : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_pre_topc : \iota \Rightarrow \iota$ be given. Let $v2_connsp_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((v2_pre_topc X0) \wedge (l1_pre_topc X0)) \Rightarrow (\forall X1. \\ & ((v2_connsp_1 X1 X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 \\ & X0)))) \Leftrightarrow ((v2_connsp_1 X1 (g1_pre_topc (u1_struct_0 X0) (u1_pre_topc \\ & X0))) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 (g1_pre_topc \\ & (u1_struct_0 X0) (u1_pre_topc X0))))))) \end{aligned} \tag{1}$$

Theorem 1

$$\begin{aligned} & \forall X0.((v2_pre_topc X0) \wedge (l1_pre_topc X0)) \Rightarrow (\forall X1. \\ & ((v2_pre_topc X1) \wedge (l1_pre_topc X1)) \Rightarrow (\forall X2.(m1_subset_1 \\ & X2 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow (\forall X3.(m1_subset_1 \\ & X3 (k1_zfmisc_1 (u1_struct_0 X1))) \Rightarrow (((g1_pre_topc (u1_struct_0 \\ & X0) (u1_pre_topc X0) = g1_pre_topc (u1_struct_0 X1) (u1_pre_topc \\ & X1)) \wedge ((X2 = X3) \wedge (v2_connsp_1 X2 X0))) \Rightarrow (v2_connsp_1 X3 X1)))))) \end{aligned}$$