

t1_mfold_1 (TMSsXp- NTSt1DM5YwkSopEwnk51tSmeBPgoF)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v2_pre_topc : \iota \Rightarrow o$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $r2_borsuk_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_pre_topc : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_struct_0 : \iota \Rightarrow \iota$ be given. Let $g1_pre_topc : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $u1_pre_topc : \iota \Rightarrow \iota$ be given. Let $m1_pre_topc : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_t_0topsp : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_pre_topc : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(l1_pre_topc X0) \Rightarrow (k1_pre_topc X0 (k2_struct_0 X0) = g1_pre_topc (u1_struct_0 X0) (u1_pre_topc X0)) \quad (1)$$

Assume the following.

$$\forall X0.(l1_pre_topc X0) \Rightarrow (m1_pre_topc X0 X0) \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v2_pre_topc X0) \wedge (l1_pre_topc X0)) \Rightarrow (\forall X1. \\ & ((\neg v2_struct_0 X1) \wedge ((v2_pre_topc X1) \wedge (l1_pre_topc X1))) \Rightarrow ((\\ & r1_t_0topsp X0 X1) \Leftrightarrow (r1_t_0topsp (g1_pre_topc (u1_struct_0 X0) \\ & (u1_pre_topc X0)) (g1_pre_topc (u1_struct_0 X1) (u1_pre_topc \\ & X1)))))) \quad (3) \end{aligned}$$

Assume the following.

$$\begin{aligned} & \forall X0.(l1_pre_topc X0) \Rightarrow (\forall X1.(l1_pre_topc X1) \Rightarrow (\forall X2. \\ & (l1_pre_topc X2) \Rightarrow (\forall X3.(l1_pre_topc X3) \Rightarrow (((g1_pre_topc \\ & (u1_struct_0 X0) (u1_pre_topc X0) = g1_pre_topc (u1_struct_0 X1) \\ & (u1_pre_topc X1)) \wedge ((g1_pre_topc (u1_struct_0 X2) (u1_pre_topc \\ & X2) = g1_pre_topc (u1_struct_0 X3) (u1_pre_topc X3)) \wedge (m1_pre_topc \\ & X2 X0)))) \Rightarrow (m1_pre_topc X3 X1)))))) \quad (4) \end{aligned}$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.(((\neg v2_struct_0 X0) \wedge (l1_pre_topc X0)) \wedge \\ & ((\neg v2_struct_0 X1) \wedge (l1_pre_topc X1))) \Rightarrow ((r2_borsuk_3 X0 X1) \Rightarrow \\ & (r2_borsuk_3 X1 X0)) \quad (5) \end{aligned}$$

Assume the following.

$$\forall X0.\forall X1.(((\neg v2_struct_0 X0)\wedge(l1_pre_topc X0))\wedge((\neg v2_struct_0 X1)\wedge(l1_pre_topc X1)))\Rightarrow(r2_borsuk_3 X0 X0) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.(((\neg v2_struct_0 X0)\wedge(l1_pre_topc X0))\wedge((\neg v2_struct_0 X1)\wedge(l1_pre_topc X1)))\Rightarrow((r2_borsuk_3 X0 X1)\Leftrightarrow(r1_t_0topsp X0 X1)) \quad (7)$$

Assume the following.

$$\exists X0.(l1_pre_topc X0)\wedge((\neg v2_struct_0 X0)\wedge((v1_pre_topc X0)\wedge(v2_pre_topc X0))) \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (k1_zfmisc_1 X0)))\Rightarrow(\forall X2.\forall X3.(g1_pre_topc X0 X1 = g1_pre_topc X2 X3)\Rightarrow((X0 = X2)\wedge(X1 = X3))) \quad (9)$$

Assume the following.

$$\forall X0.((\neg v2_struct_0 X0)\wedge(l1_pre_topc X0))\Rightarrow((\neg v2_struct_0 (g1_pre_topc (u1_struct_0 X0) (u1_pre_topc X0)))\wedge(v1_pre_topc (g1_pre_topc (u1_struct_0 X0) (u1_pre_topc X0)))) \quad (10)$$

Assume the following.

$$\forall X0.(l1_pre_topc X0)\Rightarrow(m1_subset_1 (u1_pre_topc X0) (k1_zfmisc_1 (k1_zfmisc_1 (u1_struct_0 X0)))) \quad (11)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (k1_zfmisc_1 X0)))\Rightarrow((v1_pre_topc (g1_pre_topc X0 X1))\wedge(l1_pre_topc (g1_pre_topc X0 X1))) \quad (12)$$

Assume the following.

$$\forall X0.((v2_pre_topc X0)\wedge(l1_pre_topc X0))\Rightarrow(\forall X1.(m1_pre_topc X1 X0)\Rightarrow(v2_pre_topc X1)) \quad (13)$$

Assume the following.

$$\forall X0.(l1_pre_topc X0)\Rightarrow((v1_pre_topc X0)\Rightarrow(X0 = g1_pre_topc (u1_struct_0 X0) (u1_pre_topc X0))) \quad (14)$$

Theorem 1

$$\forall X0.((\neg v2_struct_0 X0)\wedge((v2_pre_topc X0)\wedge(l1_pre_topc X0)))\Rightarrow(r2_borsuk_3 X0 (k1_pre_topc X0 (k2_struct_0 X0)))$$