

t36_isomichi
(TMQ8yhRw6qMZ2GF2YJCncpYbYB1dKYgtoBd)

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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 $v3_isomichi : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v4_isomichi : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v5_isomichi : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r3_xboole_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r2_xboole_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_pre_topc : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tops_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \neg(r3_xboole_0 X0 X1) \wedge ((\neg r1_tarski X0 X1) \wedge (\neg r2_xboole_0 X1 X0)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (r3_xboole_0 X0 X1) \Rightarrow (r3_xboole_0 X1 X0) \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. ((v2_pre_topc X0) \wedge (l1_pre_topc X0)) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow ((v5_isomichi \\ & X1 X0) \Leftrightarrow (\neg r3_xboole_0 (k2_pre_topc X0 (k1_tops_1 X0 X1)) (k1_tops_1 \\ & X0 (k2_pre_topc X0 X1)))))) \quad (3) \end{aligned}$$

Assume the following.

$$\begin{aligned} & \forall X0. ((v2_pre_topc X0) \wedge (l1_pre_topc X0)) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow ((v4_isomichi \\ & X1 X0) \Leftrightarrow (r2_xboole_0 (k2_pre_topc X0 (k1_tops_1 X0 X1)) (k1_tops_1 \\ & X0 (k2_pre_topc X0 X1)))))) \quad (4) \end{aligned}$$

Assume the following.

$$\begin{aligned} & \forall X0. ((v2_pre_topc X0) \wedge (l1_pre_topc X0)) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow ((v3_isomichi \\ & X1 X0) \Leftrightarrow (r1_tarski (k1_tops_1 X0 (k2_pre_topc X0 X1)) (k2_pre_topc \\ & X0 (k1_tops_1 X0 X1)))))) \quad (5) \end{aligned}$$

Theorem 1

$$\forall X0.((v2_pre_topc\ X0)\wedge(l1_pre_topc\ X0))\Rightarrow(\forall X1. \\ (m1_subset_1\ X1\ (k1_zfmisc_1\ (u1_struct_0\ X0)))\Rightarrow(\neg(\neg v3_isomichi \\ X1\ X0)\wedge((\neg v4_isomichi\ X1\ X0)\wedge(\neg v5_isomichi\ X1\ X0))))$$