

# t24\_isomichi (TM- NoWwCG3DbUKNWp5wweE29Nd7bTNjxAy8W)

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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  $v4\_tops\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v6\_tops\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_tops\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v5\_tops\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k2\_pre\_topc : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $k1\_isomichi : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v2\_isomichi : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_isomichi : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} & \forall X0.((v2\_pre\_topc X0) \wedge (l1\_pre\_topc X0)) \Rightarrow (\forall X1. \\ & (m1\_subset\_1 X1 (k1\_zfmisc\_1 (u1\_struct\_0 X0))) \Rightarrow ((v2\_isomichi \\ & X1 X0) \Leftrightarrow ((v5\_tops\_1 (k2\_pre\_topc X0 X1) X0) \wedge (v1\_xboole\_0 (k1\_isomichi \\ & X0 X1)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.((v2\_pre\_topc X0) \wedge (l1\_pre\_topc X0)) \Rightarrow (\forall X1. \\ & (m1\_subset\_1 X1 (k1\_zfmisc\_1 (u1\_struct\_0 X0))) \Rightarrow ((v1\_isomichi \\ & X1 X0) \Leftrightarrow ((v6\_tops\_1 (k1\_tops\_1 X0 X1) X0) \wedge (v1\_xboole\_0 (k1\_isomichi \\ & X0 X1)))))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0.((v2\_pre\_topc X0) \wedge (l1\_pre\_topc X0)) \Rightarrow (\forall X1. \\ & (m1\_subset\_1 X1 (k1\_zfmisc\_1 (u1\_struct\_0 X0))) \Rightarrow (((v1\_isomichi \\ & X1 X0) \wedge (v2\_isomichi X1 X0)) \Rightarrow (v4\_tops\_1 X1 X0))) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} & \forall X0.((v2\_pre\_topc X0) \wedge (l1\_pre\_topc X0)) \Rightarrow (\forall X1. \\ & (m1\_subset\_1 X1 (k1\_zfmisc\_1 (u1\_struct\_0 X0))) \Rightarrow ((v4\_tops\_1 \\ & X1 X0) \Rightarrow ((v1\_isomichi X1 X0) \wedge (v2\_isomichi X1 X0)))) \end{aligned} \tag{4}$$

**Theorem 1**

$$\begin{aligned} & \forall X0.((v2\_pre\_topc\ X0)\wedge(l1\_pre\_topc\ X0))\Rightarrow(\forall X1. \\ & (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0)))\Rightarrow((v4\_tops\_1 \\ & X1\ X0)\Leftrightarrow((v6\_tops\_1\ (k1\_tops\_1\ X0\ X1)\ X0)\wedge((v5\_tops\_1\ (k2\_pre\_topc \\ & X0\ X1)\ X0)\wedge(v1\_xboole\_0\ (k1\_isomichi\ X0\ X1)))))) \end{aligned}$$