t21_waybel19 (TMLMXukXHgkVskt-TFkg1ZznCfpLU56YUDuC)

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Let $v2\_pre\_topc : \iota \Rightarrow o$ be given. Let $l1\_pre\_topc : \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $m3\_yellow\_9 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $v4\_pre\_topc : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3\_pre\_topc : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1\_pre\_topc : \iota \Rightarrow \iota$ be given. Let $k2\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_tops\_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2\_cantor\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(l1\_pre\_topc\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0))) \Rightarrow ((v4\_pre\_topc\ X1\ X0) \Leftrightarrow (v3\_pre\_topc\ (k3\_subset\_1\ (u1\_struct\_0\ X0)\ X1)\ X0))) \tag{1}$$

Assume the following.

$$\forall X0.((v2\_pre\_topc\ X0) \wedge (l1\_pre\_topc\ X0)) \Rightarrow (\forall X1.((v2\_pre\_topc\ X1) \wedge (l1\_pre\_topc\ X1)) \Rightarrow (\forall X2.(m3\_yellow\_9\ X2\ X0\ X1) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X2))) \Rightarrow (((X3 \in u1\_pre\_topc\ X0) \vee (X3 \in u1\_pre\_topc\ X1)) \Rightarrow (v3\_pre\_topc\ X3\ X2))))) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.k2\_xboole\_0\ X0\ X0 = X0 \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.((l1\_pre\_topc\ X0) \wedge (l1\_pre\_topc\ X1)) \Rightarrow (\forall X2.(m3\_yellow\_9\ X2\ X0\ X1) \Rightarrow ((v2\_pre\_topc\ X2) \wedge (l1\_pre\_topc\ X2))) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0)) \Rightarrow (m1\_subset\_1\ (k3\_subset\_1\ X0\ X1)\ (k1\_zfmisc\_1\ X0)) \tag{5}$$

Assume the following.

$$\forall X0.(l1\_pre\_topc\ X0)\Rightarrow(\forall X1.(l1\_pre\_topc\ X1)\Rightarrow(\forall X2.((v2\_pre\_topc\ X2)\wedge(l1\_pre\_topc\ X2))\Rightarrow((m3\_yellow\_9\ X2\ X0\ X1)\Leftrightarrow((u1\_struct\_0\ X2 = k2\_xboole\_0\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X1))\wedge((v1\_tops\_2\ (k2\_xboole\_0\ (u1\_pre\_topc\ X0)\ (u1\_pre\_topc\ X1))\ X2)\wedge((v2\_cantor\_1\ (k2\_xboole\_0\ (u1\_pre\_topc\ X0)\ (u1\_pre\_topc\ X1))\ X2)\wedge(m1\_subset\_1\ (k2\_xboole\_0\ (u1\_pre\_topc\ X0)\ (u1\_pre\_topc\ X1))\ (k1\_zfmisc\_1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X2))))))))))) \tag{6}$$

Assume the following.

$$\forall X0.(l1\_pre\_topc\ X0)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0)))\Rightarrow((v3\_pre\_topc\ X1\ X0)\Leftrightarrow(X1\in u1\_pre\_topc\ X0))) \tag{7}$$

Theorem 1

$$\forall X0.((v2\_pre\_topc\ X0)\wedge(l1\_pre\_topc\ X0))\Rightarrow(\forall X1.((v2\_pre\_topc\ X1)\wedge(l1\_pre\_topc\ X1))\Rightarrow((u1\_struct\_0\ X0 = u1\_struct\_0\ X1)\Rightarrow(\forall X2.(m3\_yellow\_9\ X2\ X0\ X1)\Rightarrow(\forall X3.(m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0)))\Rightarrow(\forall X4.(m1\_subset\_1\ X4\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X2)))\Rightarrow(((X4 = X3)\wedge(v4\_pre\_topc\ X3\ X0))\Rightarrow(v4\_pre\_topc\ X4\ X2)))))))$$