t36_transgeo (TMVkj-YnXG9Lq69N1yTZyS8hVjVJBAXvCQL9)

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Let $v7\_struct\_0 : \iota \Rightarrow o$ be given. Let $v2\_analoaf : \iota \Rightarrow o$ be given. Let $l1\_analoaf : \iota \Rightarrow o$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $v3\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v4\_transgeo : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_diraf : \iota \Rightarrow \iota$ be given. Let $r1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r3\_transgeo : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $g1\_analoaf : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $l1\_struct\_0 : \iota \Rightarrow o$ be given. Let $v1\_zfmisc\_1 : \iota \Rightarrow o$ be given. Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $u1\_analoaf : \iota \Rightarrow \iota$ be given. Let $v1\_analoaf : \iota \Rightarrow o$ be given. Let $r1\_transgeo : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_diraf : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.\forall X4.\forall X5.\ ((\neg v1\_xboole\_0\ X1) \wedge ((\neg v1\_xboole\_0\ X3) \wedge (((v1\_funct\_1\ X4) \wedge ((v1\_funct\_2\ X4\ X0\ X1) \wedge (m1\_subset\_1\ X4\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1))))) \wedge ((v1\_funct\_1\ X5) \wedge ((v1\_funct\_2\ X5\ X2\ X3) \wedge (m1\_subset\_1\ X5\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X2\ X3))))))) \Rightarrow (r1\_funct\_2\ X0\ X1\ X2\ X3\ X4\ X4) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X0)\ (k2\_zfmisc\_1\ X0\ X0)))) \Rightarrow (\forall X2.\forall X3.\ (g1\_analoaf\ X0\ X1 = g1\_analoaf\ X2\ X3) \Rightarrow ((X0 = X2) \wedge (X1 = X3))) \tag{2}$$

Assume the following.

$$\forall X0.((v7\_struct\_0\ X0) \wedge (l1\_struct\_0\ X0)) \Rightarrow (v1\_zfmisc\_1\ (u1\_struct\_0\ X0)) \tag{3}$$

Assume the following.

$$\forall X0.((\neg v7\_struct\_0\ X0) \wedge (l1\_struct\_0\ X0)) \Rightarrow (\neg v1\_zfmisc\_1\ (u1\_struct\_0\ X0)) \tag{4}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge(l1\_struct\_0\ X0))\Rightarrow(\neg v1\_xboole\_0\ (u1\_struct\_0\ X0)) \tag{5}$$

Assume the following.

$$\forall X0.(l1\_analoaf\ X0)\Rightarrow(m1\_subset\_1\ (u1\_analoaf\ X0)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))))) \tag{6}$$

Assume the following.

$$\forall X0.(l1\_analoaf\ X0)\Rightarrow(l1\_struct\_0\ X0) \tag{7}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge(l1\_analoaf\ X0))\Rightarrow((v1\_analoaf\ (k2\_diraf\ X0))\wedge(l1\_analoaf\ (k2\_diraf\ X0))) \tag{8}$$

Assume the following.

$$\forall X0.((\neg v7\_struct\_0\ X0)\wedge((v2\_analoaf\ X0)\wedge(l1\_analoaf\ X0)))\Rightarrow(\forall X1.((v1\_funct\_1\ X1)\wedge((v1\_funct\_2\ X1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))\wedge((v3\_funct\_2\ X1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0)))))))\Rightarrow((v4\_transgeo\ X1\ X0)\Leftrightarrow(r1\_transgeo\ (u1\_struct\_0\ X0)\ X1\ (k1\_diraf\ (u1\_struct\_0\ X0)\ (u1\_analoaf\ X0))))) \tag{9}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge(l1\_analoaf\ X0))\Rightarrow(\forall X1.((v1\_funct\_1\ X1)\wedge((v1\_funct\_2\ X1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))\wedge((v3\_funct\_2\ X1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))))))))\Rightarrow((r3\_transgeo\ X0\ X1)\Leftrightarrow(r1\_transgeo\ (u1\_struct\_0\ X0)\ X1\ (u1\_analoaf\ X0)))) \tag{10}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge(l1\_analoaf\ X0))\Rightarrow(k2\_diraf\ X0 = g1\_analoaf\ (u1\_struct\_0\ X0)\ (k1\_diraf\ (u1\_struct\_0\ X0)\ (u1\_analoaf\ X0))) \tag{11}$$

Assume the following.

$$\forall X0.(l1\_struct\_0\ X0)\Rightarrow((\neg v7\_struct\_0\ X0)\Rightarrow(\neg v2\_struct\_0\ X0)) \tag{12}$$

Assume the following.

$$\forall X0.(l1\_analoaf\ X0)\Rightarrow((v1\_analoaf\ X0)\Rightarrow(X0 = g1\_analoaf\ (u1\_struct\_0\ X0)\ (u1\_analoaf\ X0))) \tag{13}$$

Theorem 1

$$\forall X0.((\neg v7\_struct\_0\ X0)\wedge((v2\_analoaf\ X0)\wedge(l1\_analoaf\ X0)))\Rightarrow(\forall X1.((v1\_funct\_1\ X1)\wedge((v1\_funct\_2\ X1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))\wedge((v3\_funct\_2\ X1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0))\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0)))))))\Rightarrow(\neg(v4\_transgeo\ X1\ X0)\wedge(\forall X2.((v1\_funct\_1\ X2)\wedge((v1\_funct\_2\ X2\ (u1\_struct\_0\ (k2\_diraf\ X0))\ (u1\_struct\_0\ (k2\_diraf\ X0)))\wedge((v3\_funct\_2\ X2\ (u1\_struct\_0\ (k2\_diraf\ X0))\ (u1\_struct\_0\ (k2\_diraf\ X0)))\wedge(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (u1\_struct\_0\ (k2\_diraf\ X0))\ (u1\_struct\_0\ (k2\_diraf\ X0))))))))\Rightarrow(\neg(r1\_funct\_2\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ X0)\ (u1\_struct\_0\ (k2\_diraf\ X0))\ (u1\_struct\_0\ (k2\_diraf\ X0))\ X1\ X2)\wedge(r3\_transgeo\ (k2\_diraf\ X0)\ X2)))))$$