

t28_transgeo (TMbB- mmtK22PXEhtMfxg1pZpqJEJfYEmPC3H)

October 27, 2020

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 $v2_transgeo : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_partfun1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $v1_transgeo : \iota \Rightarrow o$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $r3_transgeo : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_relat_1 : \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v3_relat_2 : \iota \Rightarrow o$ be given. Let $v4_relat_2 : \iota \Rightarrow o$ be given. Let $v8_relat_2 : \iota \Rightarrow o$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $l1_struct_0 : \iota \Rightarrow o$ 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 $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_relat_2 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. ((\neg v7_struct_0 X0) \wedge ((v2_analoaf X0) \wedge (l1_analoaf X0))) \Rightarrow (v1_transgeo X0) \quad (1)$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v1_transgeo X0) \wedge (l1_analoaf X0))) \Rightarrow (r3_transgeo X0 (k6_partfun1 (u1_struct_0 X0))) \quad (2)$$

Assume the following.

$$\forall X0. k6_partfun1 X0 = k4_relat_1 X0 \quad (3)$$

Assume the following.

$$\forall X0. (v1_relat_1 (k4_relat_1 X0)) \wedge ((v3_relat_2 (k4_relat_1 X0)) \wedge ((v4_relat_2 (k4_relat_1 X0)) \wedge (v8_relat_2 (k4_relat_1 X0)))) \quad (4)$$

Assume the following.

$$\forall X0. (v1_relat_1 (k4_relat_1 X0)) \wedge ((v4_relat_1 (k4_relat_1 X0) X0) \wedge ((v1_funct_1 (k4_relat_1 X0)) \wedge (v1_partfun1 (k4_relat_1 X0) X0))) \quad (5)$$

Assume the following.

$$\forall X0.(l1_analoaf\ X0)\Rightarrow(l1_struct_0\ X0) \quad (6)$$

Assume the following.

$$\forall X0.(v1_partfun1\ (k6_partfun1\ X0)\ X0)\wedge(m1_subset_1\ (k6_partfun1\ X0)\ (k1_zfmisc_1\ (k2_zfmisc_1\ X0\ X0))) \quad (7)$$

Assume the following.

$$\begin{aligned} \forall X0.((\neg v7_struct_0\ X0)\wedge((v2_analoaf\ X0)\wedge(l1_analoaf\ X0)))\Rightarrow(\forall X1.((v1_funct_1\ X1)\wedge((v1_funct_2\ X1\ (u1_struct_0\ X0)\ (u1_struct_0\ X0))\wedge((v3_funct_2\ X1\ (u1_struct_0\ X0)\ (u1_struct_0\ X0))\wedge(m1_subset_1\ X1\ (k1_zfmisc_1\ (k2_zfmisc_1\ (u1_struct_0\ X0)\ (u1_struct_0\ X0))))))\Rightarrow((v2_transgeo\ X1\ X0)\Leftrightarrow(r3_transgeo\ X0\ X1))) \end{aligned} \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1\ X1\ (k1_zfmisc_1\ (k2_zfmisc_1\ X0\ X0)))\Rightarrow(((v1_relat_2\ X1)\wedge((v1_funct_1\ X1)\wedge((v1_partfun1\ X1\ X0)\wedge(v1_funct_2\ X1\ X0\ X0))))\Rightarrow((v1_funct_1\ X1)\wedge((v1_funct_2\ X1\ X0\ X0)\wedge(v3_funct_2\ X1\ X0\ X0)))) \quad (9)$$

Assume the following.

$$\forall X0.((v1_relat_1\ X0)\wedge((v3_relat_2\ X0)\wedge(v8_relat_2\ X0)))\Rightarrow((v1_relat_1\ X0)\wedge(v1_relat_2\ X0)) \quad (10)$$

Assume the following.

$$\forall X0.(l1_struct_0\ X0)\Rightarrow((v2_struct_0\ X0)\Rightarrow(v7_struct_0\ X0)) \quad (11)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1_subset_1\ X2\ (k1_zfmisc_1\ (k2_zfmisc_1\ X0\ X1)))\Rightarrow((v1_partfun1\ X2\ X0)\Rightarrow(v1_funct_2\ X2\ X0\ X1)) \quad (12)$$

Theorem 1

$$\forall X0.((\neg v7_struct_0\ X0)\wedge((v2_analoaf\ X0)\wedge(l1_analoaf\ X0)))\Rightarrow(v2_transgeo\ (k6_partfun1\ (u1_struct_0\ X0))\ X0)$$