

t30_polyform (TMUTBYBnrLs- tuikg8m5ZgNEPDsC4s2ZCy3A)

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Let $v2_polyform : \iota \Rightarrow o$ be given. Let $v3_polyform : \iota \Rightarrow o$ be given. Let $v4_polyform : \iota \Rightarrow o$ be given. Let $l1_polyform : \iota \Rightarrow o$ be given. Let $k11_polyform : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $k5_card_1 : \iota \Rightarrow \iota$ be given. Let $v1_int_1 : \iota \Rightarrow o$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k8_polyform : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k7_polyform : \iota \Rightarrow \iota$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_polyform : \iota \Rightarrow \iota$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. k1_card_1 (k1_tarski X0) = np_1 \quad (1)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 np_1) \wedge (m2_subset_1 np_1 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_1 k5_numbers) \wedge (m1_subset_1 np_1 k1_numbers)) \end{aligned} \quad (2)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (3)$$

Assume the following.

$$\forall X0. (v1_finset_1 X0) \Rightarrow (k5_card_1 X0 = k1_card_1 X0) \quad (4)$$

Assume the following.

$$\forall X0. (v1_int_1 X0) \Rightarrow ((v1_xcmplx_0 (k4_xcmplx_0 X0)) \wedge (v1_int_1 (k4_xcmplx_0 X0))) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.(((v2_polyform\ X0)\wedge((v3_polyform\ X0)\wedge((v4_polyform\ X0)\wedge(l1_polyform\ X0))))\wedge(v1_int_1\ X1))\Rightarrow(v1_finset_1\ (k8_polyform\ X0\ X1)) \quad (6)$$

Assume the following.

$$\forall X0.((v2_polyform\ X0)\wedge((v3_polyform\ X0)\wedge((v4_polyform\ X0)\wedge(l1_polyform\ X0))))\Rightarrow(\forall X1.(v1_int_1\ X1)\Rightarrow(k11_polyform\ X0\ X1 = k5_card_1\ (k8_polyform\ X0\ X1))) \quad (7)$$

Assume the following.

$$\forall X0.((v2_polyform\ X0)\wedge((v3_polyform\ X0)\wedge((v4_polyform\ X0)\wedge(l1_polyform\ X0))))\Rightarrow(\forall X1.(v1_int_1\ X1)\Rightarrow(\forall X2.(v1_finset_1\ X2)\Rightarrow((X2 = k8_polyform\ X0\ X1)\Leftrightarrow(((\neg r1_xreal_0\ (k4_xcmplx_0\ np_1)\ X1)\Rightarrow(X2 = k1_xboole_0))\wedge(((X1 = k4_xcmplx_0\ np_1)\Rightarrow(X2 = k1_tarSKI\ k1_xboole_0))\wedge((\neg(\neg r1_xreal_0\ X1\ (k4_xcmplx_0\ np_1))\wedge((\neg r1_xreal_0\ (k7_polyform\ X0)\ X1)\wedge(X2\neq k10_xtuple_0\ (k1_funct_1\ (u1_polyform\ X0)\ (k2_xcmplx_0\ X1\ np_1))))))\wedge(((X1 = k7_polyform\ X0)\Rightarrow(X2 = k1_tarSKI\ X0))\wedge((\neg r1_xreal_0\ X1\ (k7_polyform\ X0))\Rightarrow(X2 = k1_xboole_0)))))))))) \quad (8)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k4_ordinal1)\Rightarrow(v7_ordinal1\ X0) \quad (9)$$

Assume the following.

$$\forall X0.(v7_ordinal1\ X0)\Rightarrow(v1_int_1\ X0) \quad (10)$$

Theorem 1

$$\forall X0.((v2_polyform\ X0)\wedge((v3_polyform\ X0)\wedge((v4_polyform\ X0)\wedge(l1_polyform\ X0))))\Rightarrow(k11_polyform\ X0\ (k4_xcmplx_0\ np_1) = np_1)$$