

t24_polyform

(TMKCNZ5UqE94S44Bpnr6QTYGgf98eu3KtBP)

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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 $v1_int.1 : \iota \Rightarrow o$ be given. Let $r1_xxreal.0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_xcmplx.0 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k7_polyform : \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k2_xcmplx.0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_real.1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xreal.0 : \iota \Rightarrow o$ be given. Let $v1_xboole.0 : \iota \Rightarrow o$ be given. Let $k1_xboole.0 : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $m1_subset.1 : \iota \Rightarrow \iota \Rightarrow o$ 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 $np_0 : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v1_relat.1 : \iota \Rightarrow o$ be given. Let $v1_funct.1 : \iota \Rightarrow o$ be given. Let $v1_finseq.1 : \iota \Rightarrow o$ be given. Let $k3_finseq.1 : \iota \Rightarrow \iota$ be given. Let $k1_card.1 : \iota \Rightarrow \iota$ be given. Let $v1_finset.1 : \iota \Rightarrow o$ be given. Let $v1_card.1 : \iota \Rightarrow o$ be given. Let $v1_xcmplx.0 : \iota \Rightarrow o$ be given. Let $u1_polyform : \iota \Rightarrow \iota$ be given. Let $v1_pre_poly : \iota \Rightarrow o$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_int.1 X0) \Rightarrow (\forall X1.(v1_int.1 X1) \Rightarrow ((\neg r1_xxreal.0 X1 X0) \Rightarrow (r1_xxreal.0 (k3_real.1 X0 np_1) X1))) \quad (1)$$

Assume the following.

$$\forall X0.(v1_xreal.0 X0) \Rightarrow (\forall X1.(v1_xreal.0 X1) \Rightarrow (\forall X2.(v1_xreal.0 X2) \Rightarrow ((r1_xxreal.0 X0 X1) \Leftrightarrow (r1_xxreal.0 (k2_xcmplx.0 X0 X2) (k2_xcmplx.0 X1 X2)))))) \quad (2)$$

Assume the following.

$$\forall X0.(v1_xboole.0 X0) \Rightarrow (X0 = k1_xboole.0) \quad (3)$$

Assume the following.

$$\forall X0.(v1_int.1 X0) \Rightarrow ((r1_xxreal.0 k6_numbers X0) \Rightarrow (X0 \in k5_numbers)) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.(X0 \in X1) \Rightarrow (m1_subset.1 X0 X1) \quad (5)$$

Assume the following.

$$\begin{aligned} & ((v2_xreal_0 \ np_1) \wedge (m2_subset_1 \ np_1 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_1 \ k5_numbers) \wedge (m1_subset_1 \ np_1 \ k1_numbers)) \end{aligned} \quad (6)$$

Assume the following.

$$(m2_subset_1 \ np_0 \ k1_numbers \ k5_numbers) \wedge ((m1_subset_1 \ np_0 \ k5_numbers) \wedge (m1_subset_1 \ np_0 \ k1_numbers)) \quad (7)$$

Assume the following.

$$v1_xboole_0 \ np_0 \quad (8)$$

Assume the following.

$$k2_xcmplx_0 \ (k4_xcmplx_0 \ np_1) \ np_1 = np_0 \quad (9)$$

Assume the following.

$$k2_xcmplx_0 \ np_0 \ np_1 = np_1 \quad (10)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (11)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (12)$$

Assume the following.

$$\forall X0. \forall X1. ((v1_xreal_0 \ X0) \wedge (m1_subset_1 \ X1 \ k1_numbers)) \Rightarrow (k3_real_1 \ X0 \ X1 = k2_xcmplx_0 \ X0 \ X1) \quad (13)$$

Assume the following.

$$\forall X0. ((v1_relat_1 \ X0) \wedge ((v1_funct_1 \ X0) \wedge (v1_finseq_1 \ X0))) \Rightarrow (k3_finseq_1 \ X0 = k1_card_1 \ X0) \quad (14)$$

Assume the following.

$$\forall X0. (v1_finset_1 \ X0) \Rightarrow ((v1_finset_1 \ (k1_card_1 \ X0)) \wedge (v1_card_1 \ (k1_card_1 \ X0))) \quad (15)$$

Assume the following.

$$\forall X0. (v1_int_1 \ X0) \Rightarrow ((v1_xcmplx_0 \ (k4_xcmplx_0 \ X0)) \wedge (v1_int_1 \ (k4_xcmplx_0 \ X0))) \quad (16)$$

Assume the following.

$$\forall X0. \forall X1. ((v7_ordinal1 \ X0) \wedge (v7_ordinal1 \ X1)) \Rightarrow (v7_ordinal1 \ (k2_xcmplx_0 \ X0 \ X1)) \quad (17)$$

Assume the following.

$$\forall X0.(l1_polyform\ X0)\Rightarrow((v1_relat_1\ (u1_polyform\ X0))\wedge((v1_funct_1\ (u1_polyform\ X0))\wedge((v1_finseq_1\ (u1_polyform\ X0))\wedge(v1_pre_poly\ (u1_polyform\ X0))))))\quad (18)$$

Assume the following.

$$\forall X0.v1_card_1\ (k1_card_1\ X0)\quad (19)$$

Assume the following.

$$\forall X0.((v2_polyform\ X0)\wedge((v3_polyform\ X0)\wedge((v4_polyform\ X0)\wedge(l1_polyform\ X0))))\Rightarrow(k7_polyform\ X0 = k3_finseq_1\ (u1_polyform\ X0))\quad (20)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k4_ordinal1)\Rightarrow(v7_ordinal1\ X0)\quad (21)$$

Assume the following.

$$\forall X0.((v3_ordinal1\ X0)\wedge(v1_finset_1\ X0))\Rightarrow(v7_ordinal1\ X0)\quad (22)$$

Assume the following.

$$\forall X0.(v1_int_1\ X0)\Rightarrow(v1_xreal_0\ X0)\quad (23)$$

Assume the following.

$$\forall X0.(v7_ordinal1\ X0)\Rightarrow(v1_int_1\ X0)\quad (24)$$

Assume the following.

$$\forall X0.((v1_relat_1\ X0)\wedge((v1_funct_1\ X0)\wedge(v1_finseq_1\ X0)))\Rightarrow((v1_relat_1\ X0)\wedge((v1_funct_1\ X0)\wedge(v1_finset_1\ X0)))\quad (25)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k1_numbers)\Rightarrow(v1_xreal_0\ X0)\quad (26)$$

Assume the following.

$$\forall X0.(v1_card_1\ X0)\Rightarrow(v3_ordinal1\ X0)\quad (27)$$

Theorem 1

$$\forall X0.((v2_polyform\ X0)\wedge((v3_polyform\ X0)\wedge((v4_polyform\ X0)\wedge(l1_polyform\ X0))))\Rightarrow(\forall X1.(v1_int_1\ X1)\Rightarrow(\neg(\neg r1_xreal_0\ X1\ (k4_xcmplx_0\ np_1))\wedge(\neg r1_xreal_0\ (k7_polyform\ X0)\ X1)\wedge(\neg(v7_ordinal1\ (k2_xcmplx_0\ X1\ np_1))\wedge(r1_xreal_0\ np_1\ (k2_xcmplx_0\ X1\ np_1))\wedge(r1_xreal_0\ (k2_xcmplx_0\ X1\ np_1)\ (k7_polyform\ X0))))))\quad (28)$$