

t87_polyform (TM- SqtKg2CnPmFgxSL3rwxDb8mdEStzrNLpM)

October 27, 2020

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 $k7_polyform : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $v6_polyform : \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k1_newton : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k1_gr_cy_1 : \iota \Rightarrow \iota$ be given. Let $k6_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k4_numbers : \iota$ 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 $np_0 : \iota$ be given. Let $k6_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ 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 $v1_int_1 : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k2_polyform : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k16_rvsum_1 : \iota \Rightarrow \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $v1_card_1 : \iota \Rightarrow o$ be given. Let $k29_polyform : \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_polyform : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k11_polyform : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (1)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (k1_newton X0 np_1 = X0) \quad (2)$$

Assume the following.

$$k1_gr_cy_1 (k6_finseq_1 k4_numbers) = k6_numbers \quad (3)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 np_1) \wedge (m2_subset_1 np_1 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_1 k5_numbers) \wedge (m1_subset_1 np_1 k1_numbers)) \end{aligned} \quad (4)$$

Assume the following.

$$v1_xboole_0 \text{ } np_0 \quad (5)$$

Assume the following.

$$k6_xcmplx_0 \text{ } np_1 \text{ } np_1 = np_0 \quad (6)$$

Assume the following.

$$k6_xcmplx_0 \text{ } np_0 \text{ } np_1 = k4_xcmplx_0 \text{ } np_1 \quad (7)$$

Assume the following.

$$k2_xcmplx_0 \text{ } np_1 \text{ } (k4_xcmplx_0 \text{ } np_1) = np_0 \quad (8)$$

Assume the following.

$$k2_xcmplx_0 \text{ } np_0 \text{ } np_1 = np_1 \quad (9)$$

Assume the following.

$$\forall X0.\forall X1.(m2_finseq_1 \text{ } X1 \text{ } X0) \Leftrightarrow (m1_finseq_1 \text{ } X1 \text{ } X0) \quad (10)$$

Assume the following.

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

Assume the following.

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

Assume the following.

$$\forall X0.((v1_relat_1 \text{ } X0) \wedge ((v1_funct_1 \text{ } X0) \wedge (v1_finseq_1 \text{ } X0))) \Rightarrow (k3_finseq_1 \text{ } X0 = k1_card_1 \text{ } X0) \quad (13)$$

Assume the following.

$$\forall X0.\forall X1.((v1_int_1 \text{ } X0) \wedge (v7_ordinal1 \text{ } X1)) \Rightarrow (k2_polyform \text{ } X0 \text{ } X1 = k1_newton \text{ } X0 \text{ } X1) \quad (14)$$

Assume the following.

$$\forall X0.(m1_finseq_1 \text{ } X0 \text{ } k4_numbers) \Rightarrow (k1_gr_cy_1 \text{ } X0 = k16_rvsum_1 \text{ } X0) \quad (15)$$

Assume the following.

$$\exists X0.(v1_xboole_0 \text{ } X0) \wedge ((v1_xcmplx_0 \text{ } X0) \wedge ((v1_xreal_0 \text{ } X0) \wedge (v1_xreal_0 \text{ } X0))) \quad (16)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xreal_0 X0)\wedge(v1_xreal_0 X1))\Rightarrow(v1_xreal_0 (k6_xcmplx_0 X0 X1)) \quad (17)$$

Assume the following.

$$\forall X0.\forall X1.((v1_int_1 X0)\wedge(v1_int_1 X1))\Rightarrow(v1_int_1 (k6_xcmplx_0 X0 X1)) \quad (18)$$

Assume the following.

$$\forall X0.(\neg v1_xboole_0 X0)\Rightarrow((\neg v1_xboole_0 (k1_card_1 X0))\wedge(v1_card_1 (k1_card_1 X0))) \quad (19)$$

Assume the following.

$$\forall X0.\forall X1.(m1_finseq_1 X1 X0)\Rightarrow((v1_relat_1 X1)\wedge(v1_funct_1 X1)\wedge(v1_finseq_1 X1)) \quad (20)$$

Assume the following.

$$\forall X0.m2_finseq_1 (k6_finseq_1 X0) X0 \quad (21)$$

Assume the following.

$$\forall X0.((v2_polyform X0)\wedge((v3_polyform X0)\wedge((v4_polyform X0)\wedge(l1_polyform X0))))\Rightarrow(m2_finseq_1 (k29_polyform X0) k4_numbers) \quad (22)$$

Assume the following.

$$\forall X0.k6_finseq_1 X0 = k1_xboole_0 \quad (23)$$

Assume the following.

$$\forall X0.((v2_polyform X0)\wedge((v3_polyform X0)\wedge((v4_polyform X0)\wedge(l1_polyform X0))))\Rightarrow((v6_polyform X0)\Leftrightarrow(k16_rvsum_1 (k29_polyform X0) = k2_xcmplx_0 np_1 (k2_polyform (k4_xcmplx_0 np_1) (k2_xcmplx_0 (k7_polyform X0) np_1)))) \quad (24)$$

Assume the following.

$$\forall X0.((v2_polyform X0)\wedge((v3_polyform X0)\wedge((v4_polyform X0)\wedge(l1_polyform X0))))\Rightarrow(\forall X1.(m2_finseq_1 X1 k4_numbers)\Rightarrow((X1 = k29_polyform X0)\Leftrightarrow((k3_finseq_1 X1 = k7_polyform X0)\wedge(\forall X2.(v7_ordinal1 X2)\Rightarrow(((r1_xreal_0 np_1 X2)\wedge(r1_xreal_0 X2 (k7_polyform X0))\Rightarrow(k1_funct_1 X1 X2 = k1_polyform (k2_polyform (k4_xcmplx_0 np_1) (k2_xcmplx_0 X2 np_1)) (k11_polyform X0 (k6_xcmplx_0 X2 np_1)))))))))) \quad (25)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k4_ordinal1) \Rightarrow (v7_ordinal1 X0) \quad (26)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (v1_xcmplx_0 X0) \quad (27)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (v1_xreal_0 X0) \quad (28)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (v1_int_1 X0) \quad (29)$$

Theorem 1

$$\forall X0.((v2_polyform X0) \wedge ((v3_polyform X0) \wedge ((v4_polyform X0) \wedge (l1_polyform X0)))) \Rightarrow ((k7_polyform X0 = k6_numbers) \Rightarrow (v6_polyform X0))$$