

t70_polyform (TMG- PrU4xGfWtom6H6Wozn1bzmYoZPc4BqYb)

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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 $k10_polyform : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_polyform : \iota \Rightarrow \iota$ be given. Let $k9_finseq_1 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $v1_int_1 : \iota \Rightarrow o$ 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 $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k2_pre_poly : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k3_polyform : \iota \Rightarrow \iota$ 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.

$$\begin{aligned} & \forall X0. \forall X1. ((\neg v1_xboole_0 X0) \wedge ((\neg v1_xboole_0 X1) \wedge \\ & (m1_subset_1 X1 (k1_zfmisc_1 X0)))) \Rightarrow (\forall X2. (m2_subset_1 \\ & X2 X0 X1) \Leftrightarrow (m1_subset_1 X2 X1)) \end{aligned} \quad (1)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (2)$$

Assume the following.

$$(\neg v1_xboole_0 k4_ordinal1) \wedge (v3_ordinal1 k4_ordinal1) \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0. ((v2_polyform X0) \wedge ((v3_polyform X0) \wedge ((v4_polyform \\ & X0) \wedge (l1_polyform X0)))) \Rightarrow (m2_subset_1 (k7_polyform X0) k1_numbers \\ & k5_numbers) \end{aligned} \quad (4)$$

Assume the following.

$$m1_subset_1 k5_numbers (k1_zfmisc_1 k1_numbers) \quad (5)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. (&((v2_polyform\ X0) \wedge ((v3_polyform\ X0) \wedge \\ &((v4_polyform\ X0) \wedge (l1_polyform\ X0)))) \wedge (v1_int_1\ X1)) \Rightarrow ((v1_relat_1 \\ &(k10_polyform\ X0\ X1)) \wedge ((v1_funct_1\ (k10_polyform\ X0\ X1)) \wedge (v1_finseq_1 \\ &(k10_polyform\ X0\ X1)))) \end{aligned} \quad (6)$$

Assume the following.

$$\begin{aligned} \forall X0. (&(v2_polyform\ X0) \wedge ((v3_polyform\ X0) \wedge ((v4_polyform \\ &X0) \wedge (l1_polyform\ X0)))) \Rightarrow (\forall X1. (v1_int_1\ X1) \Rightarrow (\forall X2. \\ &((v1_relat_1\ X2) \wedge ((v1_funct_1\ X2) \wedge (v1_finseq_1\ X2)))) \Rightarrow ((X2 = \\ &k10_polyform\ X0\ X1) \Leftrightarrow (((\neg r1_xxreal_0\ (k4_xcmplx_0\ np_1)\ X1) \Rightarrow \\ &(X2 = k2_pre_poly\ k1_xboole_0)) \wedge (((X1 = k4_xcmplx_0\ np_1) \Rightarrow (X2 = \\ &k3_polyform\ k1_xboole_0)) \wedge ((\neg(\neg r1_xxreal_0\ X1\ (k4_xcmplx_0 \\ &np_1))) \wedge ((\neg r1_xxreal_0\ (k7_polyform\ X0)\ X1) \wedge (X2 \neq k1_funct_1 \\ &(u1_polyform\ X0)\ (k2_xcmplx_0\ X1\ np_1)))))) \wedge (((X1 = k7_polyform \\ &X0) \Rightarrow (X2 = k9_finseq_1\ X0)) \wedge ((\neg r1_xxreal_0\ X1\ (k7_polyform\ X0)) \Rightarrow \\ &(X2 = k2_pre_poly\ k1_xboole_0)))))) \end{aligned} \quad (7)$$

Assume the following.

$$\forall X0. (m1_subset_1\ X0\ k4_ordinal1) \Rightarrow (v7_ordinal1\ X0) \quad (8)$$

Assume the following.

$$\forall X0. (v7_ordinal1\ X0) \Rightarrow (v1_int_1\ X0) \quad (9)$$

Assume the following.

$$\forall X0. (v1_xboole_0\ X0) \Rightarrow (\forall X1. (m1_subset_1\ X1\ (k1_zfmisc_1\ X0)) \Rightarrow (v1_xboole_0\ X1)) \quad (10)$$

Theorem 1

$$\forall X0. ((v2_polyform\ X0) \wedge ((v3_polyform\ X0) \wedge ((v4_polyform\ X0) \wedge (l1_polyform\ X0)))) \Rightarrow (k10_polyform\ X0\ (k7_polyform\ X0) = k9_finseq_1\ X0)$$