

t63_polyform

(TMJE1dxv1sGXxyLKq53EJHu3C6WbQCCDKjq)

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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 $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $k2_struct_0 : \iota \Rightarrow \iota$ be given. Let $k17_polyform : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_polyform : \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k7_bspace : \iota \Rightarrow \iota$ be given. Let $k3_card_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $v1_card_1 : \iota \Rightarrow o$ 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 $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $u1_polyform : \iota \Rightarrow \iota$ be given. Let $v1_pre_poly : \iota \Rightarrow o$ be given. Let $v1_int_1 : \iota \Rightarrow o$ 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 $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((v2_polyform X0) \wedge ((v3_polyform X0) \wedge ((v4_polyform X0) \wedge (l1_polyform X0)))) \Rightarrow (k1_card_1 (k2_struct_0 (k17_polyform X0 (k4_xcmplx_0 np_1))) = np_2) \quad (1)$$

Assume the following.

$$\forall X0.k1_card_1 (k2_struct_0 (k7_bspace X0)) = k3_card_2 np_2 (k1_card_1 X0) \quad (2)$$

Assume the following.

$$\forall X0.k1_card_1 (k1_tarski X0) = np_1 \quad (3)$$

Assume the following.

$$\forall X0.(v1_card_1 X0) \Rightarrow ((k3_card_2 X0 np_1 = X0) \wedge (k3_card_2 np_1 X0 = np_1)) \quad (4)$$

Assume the following.

$$\forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow (k3_finseq_1 X0 = k1_card_1 X0) \quad (5)$$

Assume the following.

$$\forall X0.(v1_finset_1 X0) \Rightarrow ((v1_finset_1 (k1_card_1 X0)) \wedge (v1_card_1 (k1_card_1 X0))) \quad (6)$$

Assume the following.

$$\forall X0.(l1_polyform X0) \Rightarrow ((v1_relat_1 (u1_polyform X0)) \wedge ((v1_funct_1 (u1_polyform X0)) \wedge ((v1_finseq_1 (u1_polyform X0)) \wedge (v1_pre_poly (u1_polyform X0)))))) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.(((v2_polyform X0) \wedge ((v3_polyform X0) \wedge ((v4_polyform X0) \wedge (l1_polyform X0)))) \wedge (v1_int_1 X1)) \Rightarrow (v1_finset_1 (k8_polyform X0 X1)) \quad (8)$$

Assume the following.

$$\forall X0.v1_card_1 (k1_card_1 X0) \quad (9)$$

Assume the following.

$$\forall X0.(((v2_polyform X0) \wedge ((v3_polyform X0) \wedge ((v4_polyform X0) \wedge (l1_polyform X0)))) \Rightarrow (\forall X1.(v1_int_1 X1) \Rightarrow (\forall X2.(v1_finset_1 X2) \Rightarrow ((X2 = k8_polyform X0 X1) \Leftrightarrow (((\neg r1_xreal_0 (k4_xcmplx_0 np_1) X1) \Rightarrow (X2 = k1_xboole_0)) \wedge (((X1 = k4_xcmplx_0 np_1) \Rightarrow (X2 = k1_tarSKI k1_xboole_0)) \wedge ((\neg(\neg r1_xreal_0 X1 (k4_xcmplx_0 np_1)) \wedge ((\neg r1_xreal_0 (k7_polyform X0) X1) \wedge (X2 \neq k10_xtuple_0 (k1_funct_1 (u1_polyform X0) (k2_xcmplx_0 X1 np_1)))))) \wedge (((X1 = k7_polyform X0) \Rightarrow (X2 = k1_tarSKI X0)) \wedge ((\neg r1_xreal_0 X1 (k7_polyform X0)) \Rightarrow (X2 = k1_xboole_0)))))))))) \quad (10)$$

Assume the following.

$$\forall X0.(((v2_polyform X0) \wedge ((v3_polyform X0) \wedge ((v4_polyform X0) \wedge (l1_polyform X0)))) \Rightarrow (k7_polyform X0 = k3_finseq_1 (u1_polyform X0))) \quad (11)$$

Assume the following.

$$\forall X0.(((v2_polyform X0) \wedge ((v3_polyform X0) \wedge ((v4_polyform X0) \wedge (l1_polyform X0)))) \Rightarrow (\forall X1.(v1_int_1 X1) \Rightarrow (k17_polyform X0 X1 = k7_bSpace (k8_polyform X0 X1))) \quad (12)$$

Assume the following.

$$\forall X0.((v3_ordinal1 X0) \wedge (v1_finset_1 X0)) \Rightarrow (v7_ordinal1 X0) \quad (13)$$

Assume the following.

$$\forall X0.(v7_ordinal1\ X0)\Rightarrow(v1_int_1\ X0) \quad (14)$$

Assume the following.

$$\forall X0.((v1_relat_1\ X0)\wedge((v1_funct_1\ X0)\wedge(v1_finseq_1\ X0)))\Rightarrow \\ ((v1_relat_1\ X0)\wedge((v1_funct_1\ X0)\wedge(v1_finset_1\ X0))) \quad (15)$$

Assume the following.

$$\forall X0.(v1_card_1\ X0)\Rightarrow(v3_ordinal1\ X0) \quad (16)$$

Theorem 1

$$\forall X0.((v2_polyform\ X0)\wedge((v3_polyform\ X0)\wedge((v4_polyform\ X0)\wedge(l1_polyform\ X0))))\Rightarrow(k1_card_1\ (k2_struct_0\ (k17_polyform\ X0\ (k7_polyform\ X0))) = np_2)$$