

t79_polyform

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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 $v5_polyform : \iota \Rightarrow o$ be given. Let $k1_vectsp_9 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_bspace : \iota$ be given. Let $k22_polyform : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_polyform : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k24_polyform : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_int_1 : \iota \Rightarrow o$ 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 $k5_numbers : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((v2_polyform X0) \wedge ((v3_polyform X0) \wedge ((v4_polyform X0) \wedge (l1_polyform X0)))) \Rightarrow (k1_vectsp_9 k2_bspace (k24_polyform X0 (k6_xcmplx_0 (k7_polyform X0) np_1)) = np_1) \quad (1)$$

Assume the following.

$$\forall X0.((v2_polyform X0) \wedge ((v3_polyform X0) \wedge ((v4_polyform X0) \wedge (l1_polyform X0)))) \Rightarrow ((v5_polyform X0) \Leftrightarrow (\forall X1.(v1_int_1 X1) \Rightarrow (k22_polyform X0 X1 = k24_polyform X0 X1))) \quad (2)$$

Assume the following.

$$((v2_xxreal_0 np_1) \wedge (m2_subset_1 np_1 k1_numbers k5_numbers)) \wedge ((m1_subset_1 np_1 k5_numbers) \wedge (m1_subset_1 np_1 k1_numbers)) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. ((\neg v1_xboole_0 X0) \wedge ((\neg v1_xboole_0 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X0)))) \Rightarrow (\forall X2.(m2_subset_1 X2 X0 X1) \Leftrightarrow (m1_subset_1 X2 X1)) \quad (4)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (5)$$

Assume the following.

$$(\neg v1_xboole_0 \ k4_ordinal1) \wedge (v3_ordinal1 \ k4_ordinal1) \quad (6)$$

Assume the following.

$$\forall X0. \forall X1. ((v1_int_1 \ X0) \wedge (v1_int_1 \ X1)) \Rightarrow (v1_int_1 \ (k6_xcmplx_0 \ X0 \ X1)) \quad (7)$$

Assume the following.

$$\forall X0. ((v2_polyform \ X0) \wedge ((v3_polyform \ X0) \wedge ((v4_polyform \ X0) \wedge (l1_polyform \ X0)))) \Rightarrow (m2_subset_1 \ (k7_polyform \ X0) \ k1_numbers \ k5_numbers) \quad (8)$$

Assume the following.

$$m1_subset_1 \ k5_numbers \ (k1_zfmisc_1 \ k1_numbers) \quad (9)$$

Assume the following.

$$\forall X0. (m1_subset_1 \ X0 \ k4_ordinal1) \Rightarrow (v7_ordinal1 \ X0) \quad (10)$$

Assume the following.

$$\forall X0. (v7_ordinal1 \ X0) \Rightarrow (v1_int_1 \ X0) \quad (11)$$

Assume the following.

$$\forall X0. (v1_xboole_0 \ X0) \Rightarrow (\forall X1. (m1_subset_1 \ X1 \ (k1_zfmisc_1 \ X0)) \Rightarrow (v1_xboole_0 \ X1)) \quad (12)$$

Theorem 1

$$\forall X0. ((v2_polyform \ X0) \wedge ((v3_polyform \ X0) \wedge ((v4_polyform \ X0) \wedge (l1_polyform \ X0)))) \Rightarrow ((v5_polyform \ X0) \Rightarrow (k1_vectsp_9 \ k2_bspace \ (k22_polyform \ X0 \ (k6_xcmplx_0 \ (k7_polyform \ X0) \ np_1)) = np_1))$$