

l22_polynom2

(TMU9rG78s9NFpZAsLRvMXoKkYZsMZbonPTo)

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Let $k1_polynom2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k16_pre_poly : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v4_valued_0 : \iota \Rightarrow o$ be given. Let $v2_pre_poly : \iota \Rightarrow o$ be given. Let $k13_pre_poly : \iota \Rightarrow \iota$ be given. Let $k15_pre_poly : \iota \Rightarrow \iota$ be given. Let $k14_pre_poly : \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $v3_card_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $v2_finseq_1 : \iota \Rightarrow o$ 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 $v4_funct_1 : \iota \Rightarrow o$ be given. Assume the following.

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

Assume the following.

$$\forall X0.\forall X1.k1_funct_1 (k16_pre_poly X0) X1 = k6_numbers \quad (2)$$

Assume the following.

$$m1_subset_1 k1_xboole_0 k4_ordinal1 \quad (3)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.((v1_relat_1 X1) \wedge ((v4_relat_1 X1 X0) \wedge ((v1_funct_1 X1) \wedge ((v1_partfun1 X1 X0) \wedge ((v4_valued_0 X1) \wedge (v2_pre_poly X1)))))) \Rightarrow (k1_polynom2 X0 X1 = k13_pre_poly X1) \quad (5)$$

Assume the following.

$$\forall X0.k15_pre_poly X0 = k14_pre_poly X0 \quad (6)$$

Assume the following.

$$\forall X0.(v7_ordinal1\ X0)\Rightarrow(\exists X1.(v1_relat_1\ X1)\wedge((v4_relat_1\ X1\ k5_numbers)\wedge((v1_funct_1\ X1)\wedge((v1_finset_1\ X1)\wedge((v3_card_1\ X1\ X0)\wedge((v1_finseq_1\ X1)\wedge(v2_finseq_1\ X1)))))))\quad (7)$$

Assume the following.

$$\forall X0.\neg v1_xboole_0\ (k14_pre_poly\ X0)\quad (8)$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1_xboole_0\ X0)\wedge((\neg v1_xboole_0\ X1)\wedge(m1_subset_1\ X1\ (k1_zfmisc_1\ X0))))\Rightarrow(\forall X2.(m2_subset_1\ X2\ X0\ X1)\Rightarrow(m1_subset_1\ X2\ X0))\quad (9)$$

Assume the following.

$$\forall X0.\forall X1.((v1_relat_1\ X1)\wedge((v4_relat_1\ X1\ X0)\wedge((v1_funct_1\ X1)\wedge((v1_partfun1\ X1\ X0)\wedge((v4_valued_0\ X1)\wedge(v2_pre_poly\ X1))))))\Rightarrow((v1_finset_1\ (k1_polynom2\ X0\ X1))\wedge(m1_subset_1\ (k1_polynom2\ X0\ X1)\ (k1_zfmisc_1\ X0)))\quad (10)$$

Assume the following.

$$\forall X0.m2_subset_1\ (k16_pre_poly\ X0)\ (k14_pre_poly\ X0)\ (k15_pre_poly\ X0)\quad (11)$$

Assume the following.

$$\forall X0.m1_subset_1\ (k15_pre_poly\ X0)\ (k1_zfmisc_1\ (k14_pre_poly\ X0))\quad (12)$$

Assume the following.

$$\forall X0.((v1_relat_1\ X0)\wedge(v1_funct_1\ X0))\Rightarrow(\forall X1.(X1 = k13_pre_poly\ X0)\Leftrightarrow(\forall X2.(X2 \in X1)\Leftrightarrow(k1_funct_1\ X0\ X2\neq k6_numbers)))\quad (13)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1\ X1\ (k1_zfmisc_1\ (k15_pre_poly\ X0)))\Rightarrow(v4_funct_1\ X1)\quad (14)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k4_ordinal1)\Rightarrow(v7_ordinal1\ X0)\quad (15)$$

Assume the following.

$$\forall X0.(v4_funct_1\ X0)\Rightarrow(\forall X1.(m1_subset_1\ X1\ X0)\Rightarrow((v1_relat_1\ X1)\wedge(v1_funct_1\ X1)))\quad (16)$$

Assume the following.

$$\forall X0.(v3_card_1 X0 k1_xboole_0) \Rightarrow (v1_xboole_0 X0) \quad (17)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 X0)) \Rightarrow (v1_xboole_0 X1)) \quad (18)$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1_xboole_0 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k15_pre_poly X0)))) \Rightarrow (\forall X2.(m1_subset_1 X2 X1) \Rightarrow ((v1_partfun1 X2 X0) \wedge ((v4_valued_0 X2) \wedge (v2_pre_poly X2)))) \quad (19)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (k15_pre_poly X0))) \Rightarrow (\forall X2.(m1_subset_1 X2 X1) \Rightarrow (v4_relat_1 X2 X0)) \quad (20)$$

Theorem 1 $\forall X0.k1_polynom2 X0 (k16_pre_poly X0) = k1_xboole_0.$