

t8_polynom2
(TMHvSg6iwJesmCTYvNWRVYVdJZwQAH9B5ZzA)

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Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $v1_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_relat_2 : \iota \Rightarrow o$ be given. Let $v4_relat_2 : \iota \Rightarrow o$ be given. Let $v8_relat_2 : \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r3_orders_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $k4_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k7_pre_poly : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow ((r1_xxreal_0 X0 X1) \wedge (r1_xxreal_0 X1 X0)) \Rightarrow (X0 = X1)) \quad (1)$$

Assume the following.

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

Assume the following.

$$\forall X0.\forall X1.\forall X2.(((v1_finset_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X0))) \wedge ((v1_partfun1 X2 X0) \wedge ((v1_relat_2 X2) \wedge ((v4_relat_2 X2) \wedge ((v8_relat_2 X2) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X0)))))))) \Rightarrow (m2_finseq_1 (k7_pre_poly X0 X1 X2) X0) \quad (3)$$

Assume the following.

$$\begin{aligned}
& \forall X0.\forall X1.((v1_finset_1 X1)\wedge(m1_subset_1 X1 (k1_zfmisc_1 \\
& X0)))\Rightarrow(\forall X2.((v1_partfun1 X2 X0)\wedge((v1_relat_2 X2)\wedge((v4_relat_2 \\
& X2)\wedge((v8_relat_2 X2)\wedge(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 \\
& X0 X0))))))\Rightarrow((r3_orders_1 X2 X1)\Rightarrow(\forall X3.(m2_finseq_1 X3 \\
& X0)\Rightarrow((X3 = k7_pre_poly X0 X1 X2)\Leftrightarrow((k2_relset_1 X0 X3 = X1)\wedge(\forall X4. \\
& (v7_ordinal1 X4)\Rightarrow(\forall X5.(v7_ordinal1 X5)\Rightarrow(((X4 \in k4_finseq_1 \\
& X3)\wedge(X5 \in k4_finseq_1 X3))\Rightarrow((r1_xxreal_0 X5 X4)\vee((k7_partfun1 \\
& X0 X3 X4\neq k7_partfun1 X0 X3 X5)\wedge(k4_tarski (k7_partfun1 X0 X3 X4) \\
& (k7_partfun1 X0 X3 X5) \in X2))))))))))
\end{aligned} \tag{4}$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k4_ordinal1)\Rightarrow(v7_ordinal1 X0) \tag{5}$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0)\Rightarrow(v1_xxreal_0 X0) \tag{6}$$

Theorem 1

$$\begin{aligned}
& \forall X0.\forall X1.((v1_finset_1 X1)\wedge(m1_subset_1 X1 (k1_zfmisc_1 \\
& X0)))\Rightarrow(\forall X2.((v1_partfun1 X2 X0)\wedge((v1_relat_2 X2)\wedge((v4_relat_2 \\
& X2)\wedge((v8_relat_2 X2)\wedge(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 \\
& X0 X0))))))\Rightarrow((r3_orders_1 X2 X1)\Rightarrow(\forall X3.(m1_subset_1 X3 \\
& k5_numbers)\Rightarrow(\forall X4.(m1_subset_1 X4 k5_numbers)\Rightarrow(((X3 \in \\
& k4_finseq_1 (k7_pre_poly X0 X1 X2))\wedge((X4 \in k4_finseq_1 (k7_pre_poly \\
& X0 X1 X2))\wedge(k7_partfun1 X0 (k7_pre_poly X0 X1 X2) X3 = k7_partfun1 \\
& X0 (k7_pre_poly X0 X1 X2) X4))\Rightarrow(X3 = X4))))))
\end{aligned}$$