

l43_polynom7

(TMWoHuFjfiPa64zxEWJ33WnJoQKAtfzP2pv)

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Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $v7_struct_0 : \iota \Rightarrow o$ be given. Let $v13_algstr_0 : \iota \Rightarrow o$ be given. Let $v2_rlvect_1 : \iota \Rightarrow o$ be given. Let $v3_rlvect_1 : \iota \Rightarrow o$ be given. Let $v4_rlvect_1 : \iota \Rightarrow o$ be given. Let $v3_group_1 : \iota \Rightarrow o$ be given. Let $v5_group_1 : \iota \Rightarrow o$ be given. Let $v4_vectsp_1 : \iota \Rightarrow o$ be given. Let $v5_vectsp_1 : \iota \Rightarrow o$ be given. Let $v1_algstr_1 : \iota \Rightarrow o$ be given. Let $l6_algstr_0 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k15_pre_poly : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $v1_polynom1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_polynom2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10_polynom1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_polynom7 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_group_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $l2_struct_0 : \iota \Rightarrow o$ be given. Let $v4_polynom7 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $l2_algstr_0 : \iota \Rightarrow o$ be given. Let $l5_algstr_0 : \iota \Rightarrow o$ be given. Let $l1_struct_0 : \iota \Rightarrow o$ be given. Let $l1_algstr_0 : \iota \Rightarrow o$ be given. Let $v3_polynom7 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v3_ordinal1 X0) \Rightarrow (\forall X1.((\neg v7_struct_0 X1) \wedge \\ & ((v13_algstr_0 X1) \wedge ((v3_rlvect_1 X1) \wedge ((v4_rlvect_1 X1) \wedge ((v4_vectsp_1 \\ & X1) \wedge ((v5_vectsp_1 X1) \wedge (l6_algstr_0 X1))))))) \Rightarrow (\forall X2.(\\ & m1_subset_1 X2 (u1_struct_0 X1)) \Rightarrow (\forall X3.((v1_funct_1 X3) \wedge \\ & ((v1_funct_2 X3 X0 (u1_struct_0 X1)) \wedge (m1_subset_1 X3 (k1_zfmisc_1 \\ & (k2_zfmisc_1 X0 (u1_struct_0 X1)))))) \Rightarrow (k5_polynom2 X0 X1 (k4_polynom7 \\ & X0 X1 X2) X3 = X2)))) \end{aligned}$$

(1)

Assume the following.

$$\begin{aligned}
& \forall X0.(v3_ordinal1\ X0) \Rightarrow (\forall X1.((\neg v2_struct_0\ X1) \wedge \\
& ((\neg v7_struct_0\ X1) \wedge ((v13_algstr_0\ X1) \wedge ((v3_group_1\ X1) \wedge ((v5_group_1 \\
& X1) \wedge ((v2_rlvect_1\ X1) \wedge ((v3_rlvect_1\ X1) \wedge ((v4_rlvect_1\ X1) \wedge \\
& ((v4_vectsp_1\ X1) \wedge ((v5_vectsp_1\ X1) \wedge (l6_algstr_0\ X1)))))))))) \Rightarrow \\
& (\forall X2.((v1_funct_1\ X2) \wedge ((v1_funct_2\ X2\ (k15_pre_poly\ X0) \\
& (u1_struct_0\ X1)) \wedge ((v1_polynom1\ X2\ (k15_pre_poly\ X0)\ X1) \wedge (m1_subset_1 \\
& X2\ (k1_zfmisc_1\ (k2_zfmisc_1\ (k15_pre_poly\ X0)\ (u1_struct_0\ X1)))))) \Rightarrow \\
& (\forall X3.((v1_funct_1\ X3) \wedge ((v1_funct_2\ X3\ (k15_pre_poly\ X0) \\
& (u1_struct_0\ X1)) \wedge ((v1_polynom1\ X3\ (k15_pre_poly\ X0)\ X1) \wedge (m1_subset_1 \\
& X3\ (k1_zfmisc_1\ (k2_zfmisc_1\ (k15_pre_poly\ X0)\ (u1_struct_0\ X1)))))) \Rightarrow \\
& (\forall X4.((v1_funct_1\ X4) \wedge ((v1_funct_2\ X4\ X0\ (u1_struct_0 \\
& X1)) \wedge (m1_subset_1\ X4\ (k1_zfmisc_1\ (k2_zfmisc_1\ X0\ (u1_struct_0 \\
& X1)))))) \Rightarrow (k5_polynom2\ X0\ X1\ (k10_polynom1\ X0\ X1\ X2\ X3)\ X4 = k8_group_1 \\
& X1\ (k5_polynom2\ X0\ X1\ X2\ X4)\ (k5_polynom2\ X0\ X1\ X3\ X4)))))) \\
& \hspace{15em} (2)
\end{aligned}$$

Assume the following.

$$\begin{aligned}
& \forall X0.\forall X1.\forall X2.(((\neg v2_struct_0\ X1) \wedge (l2_struct_0 \\
& X1)) \wedge (m1_subset_1\ X2\ (u1_struct_0\ X1))) \Rightarrow ((v1_funct_1\ (k4_polynom7 \\
& X0\ X1\ X2)) \wedge ((v1_funct_2\ (k4_polynom7\ X0\ X1\ X2)\ (k15_pre_poly\ X0) \\
& (u1_struct_0\ X1)) \wedge (v4_polynom7\ (k4_polynom7\ X0\ X1\ X2)\ X0\ X1))) \\
& \hspace{15em} (3)
\end{aligned}$$

Assume the following.

$$\forall X0.(l6_algstr_0\ X0) \Rightarrow ((l2_algstr_0\ X0) \wedge (l5_algstr_0\ X0)) \quad (4)$$

Assume the following.

$$\forall X0.(l2_struct_0\ X0) \Rightarrow (l1_struct_0\ X0) \quad (5)$$

Assume the following.

$$\forall X0.(l2_algstr_0\ X0) \Rightarrow ((l2_struct_0\ X0) \wedge (l1_algstr_0\ X0)) \quad (6)$$

Assume the following.

$$\begin{aligned}
& \forall X0.\forall X1.\forall X2.(((\neg v2_struct_0\ X1) \wedge (l2_struct_0 \\
& X1)) \wedge (m1_subset_1\ X2\ (u1_struct_0\ X1))) \Rightarrow ((v1_funct_1\ (k4_polynom7 \\
& X0\ X1\ X2)) \wedge ((v1_funct_2\ (k4_polynom7\ X0\ X1\ X2)\ (k15_pre_poly\ X0) \\
& (u1_struct_0\ X1)) \wedge (m1_subset_1\ (k4_polynom7\ X0\ X1\ X2)\ (k1_zfmisc_1 \\
& (k2_zfmisc_1\ (k15_pre_poly\ X0)\ (u1_struct_0\ X1)))))) \\
& \hspace{15em} (7)
\end{aligned}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((\neg v2_struct_0 X1) \wedge (l2_struct_0 X1)) \Rightarrow \\ & (\forall X2. (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 (k15_pre_poly \\ & X0) (u1_struct_0 X1)))) \Rightarrow (((v1_funct_1 X2) \wedge ((v1_funct_2 X2 (k15_pre_poly \\ & X0) (u1_struct_0 X1))) \wedge (v4_polynom7 X2 X0 X1))) \Rightarrow ((v1_funct_1 X2) \wedge \\ & ((v1_funct_2 X2 (k15_pre_poly X0) (u1_struct_0 X1)) \wedge (v3_polynom7 \\ & X2 X0 X1)))))) \end{aligned} \quad (8)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((\neg v2_struct_0 X1) \wedge (l2_struct_0 X1)) \Rightarrow \\ & (\forall X2. (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 (k15_pre_poly \\ & X0) (u1_struct_0 X1)))) \Rightarrow (((v1_funct_1 X2) \wedge ((v1_funct_2 X2 (k15_pre_poly \\ & X0) (u1_struct_0 X1))) \wedge (v3_polynom7 X2 X0 X1))) \Rightarrow ((v1_funct_1 X2) \wedge \\ & ((v1_funct_2 X2 (k15_pre_poly X0) (u1_struct_0 X1)) \wedge (v1_polynom1 \\ & X2 (k15_pre_poly X0) X1)))))) \end{aligned} \quad (9)$$

Assume the following.

$$\forall X0. (l1_struct_0 X0) \Rightarrow ((v2_struct_0 X0) \Rightarrow (v7_struct_0 X0)) \quad (10)$$

Theorem 1

$$\begin{aligned} & \forall X0. (v3_ordinal1 X0) \Rightarrow (\forall X1. ((\neg v7_struct_0 X1) \wedge \\ & ((v13_algstr_0 X1) \wedge ((v2_rlvect_1 X1) \wedge ((v3_rlvect_1 X1) \wedge ((v4_rlvect_1 \\ & X1) \wedge ((v3_group_1 X1) \wedge ((v5_group_1 X1) \wedge ((v4_vectsp_1 X1) \wedge ((\\ & v5_vectsp_1 X1) \wedge ((v1_algstr_1 X1) \wedge (l6_algstr_0 X1)))))))))) \Rightarrow \\ & (\forall X2. ((v1_funct_1 X2) \wedge ((v1_funct_2 X2 (k15_pre_poly X0) \\ & (u1_struct_0 X1)) \wedge ((v1_polynom1 X2 (k15_pre_poly X0) X1) \wedge (m1_subset_1 \\ & X2 (k1_zfmisc_1 (k2_zfmisc_1 (k15_pre_poly X0) (u1_struct_0 X1)))))) \Rightarrow \\ & (\forall X3. (m1_subset_1 X3 (u1_struct_0 X1)) \Rightarrow (\forall X4. ((\\ & v1_funct_1 X4) \wedge ((v1_funct_2 X4 X0 (u1_struct_0 X1)) \wedge (m1_subset_1 \\ & X4 (k1_zfmisc_1 (k2_zfmisc_1 X0 (u1_struct_0 X1)))))) \Rightarrow (k5_polynom2 \\ & X0 X1 (k10_polynom1 X0 X1 X2 (k4_polynom7 X0 X1 X3)) X4 = k8_group_1 \\ & X1 (k5_polynom2 X0 X1 X2 X4) X3)))))) \end{aligned}$$