

t25_group_1
(TMF8duHLf6abPLTz1eaaN5XY68yi4ncryJW)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_int_2 : \iota \Rightarrow o$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v8_struct_0 : \iota \Rightarrow o$ be given. Let $v15_algstr_0 : \iota \Rightarrow o$ be given. Let $v2_group_1 : \iota \Rightarrow o$ be given. Let $v3_group_1 : \iota \Rightarrow o$ be given. Let $l3_algstr_0 : \iota \Rightarrow o$ be given. Let $v2_group_10 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_group_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $v1_gr_cy_1 : \iota \Rightarrow o$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k1_newton : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_group_1 : \iota \Rightarrow \iota$ be given. Let $l1_struct_0 : \iota \Rightarrow o$ be given. Let $k7_struct_0 : \iota \Rightarrow \iota$ be given. Let $k1_group_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (k1_newton X0 np_1 = X0) \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. (& \neg v2_struct_0 X0) \wedge ((v8_struct_0 X0) \wedge ((v15_algstr_0 \\ X0) \wedge ((v2_group_1 X0) \wedge ((v3_group_1 X0) \wedge (l3_algstr_0 X0)))))) \Rightarrow \\ ((v1_int_2 (k7_group_1 X0)) \Rightarrow ((\neg v2_struct_0 X0) \wedge ((v2_group_1 \\ X0) \wedge ((v3_group_1 X0) \wedge ((v1_gr_cy_1 X0) \wedge (l3_algstr_0 X0))))))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. ((v8_struct_0 X0) \wedge (l1_struct_0 X0)) \Rightarrow (k7_group_1 X0 = k7_struct_0 X0) \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. (((v7_ordinal1 X0) \wedge (v1_int_2 X0)) \wedge ((\neg \\ v2_struct_0 X1) \wedge ((v2_group_1 X1) \wedge ((v3_group_1 X1) \wedge (l3_algstr_0 \\ X1)))))) \Rightarrow (k2_group_1 X0 X1 = k1_group_1 X0 X1) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0. (l3_algstr_0 X0) \Rightarrow (l1_struct_0 X0) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.(((v7_ordinal1\ X0)\wedge(v1_int_2\ X0))\wedge((\neg v2_struct_0\ X1)\wedge((v2_group_1\ X1)\wedge((v3_group_1\ X1)\wedge(l3_algstr_0\ X1))))))\Rightarrow(v7_ordinal1\ (k1_group_1\ X0\ X1)) \quad (6)$$

Assume the following.

$$\forall X0.((v7_ordinal1\ X0)\wedge(v1_int_2\ X0))\Rightarrow(\forall X1.((\neg v2_struct_0\ X1)\wedge((v2_group_1\ X1)\wedge((v3_group_1\ X1)\wedge(l3_algstr_0\ X1))))\Rightarrow((v2_group_10\ X1\ X0)\Rightarrow(\forall X2.(v7_ordinal1\ X2)\Rightarrow((X2 = k1_group_1\ X0\ X1)\Leftrightarrow(k7_struct_0\ X1 = k1_newton\ X0\ X2)))))) \quad (7)$$

Assume the following.

$$\forall X0.(v1_xreal_0\ X0)\Rightarrow(v1_xcmplx_0\ X0) \quad (8)$$

Assume the following.

$$\forall X0.(v7_ordinal1\ X0)\Rightarrow(v1_xreal_0\ X0) \quad (9)$$

Theorem 1

$$\forall X0.((v7_ordinal1\ X0)\wedge(v1_int_2\ X0))\Rightarrow(\forall X1.((\neg v2_struct_0\ X1)\wedge((v8_struct_0\ X1)\wedge((v15_algstr_0\ X1)\wedge((v2_group_1\ X1)\wedge((v3_group_1\ X1)\wedge(l3_algstr_0\ X1)))))))\Rightarrow(((v2_group_10\ X1\ X0)\wedge(k2_group_1\ X0\ X1 = np_1))\Rightarrow(v1_gr_cy_1\ X1)))$$