

t34_groeb_1
(TMV3dyszRXrnbMxXj dq9qAQG2PHKZLKk658)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $g1_orders_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k15_pre_poly : \iota \Rightarrow \iota$ be given. Let $k4_groeb_1 : \iota \Rightarrow \iota$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $r1_dickson : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_orders_2 : \iota \Rightarrow o$ be given. Let $v4_dickson : \iota \Rightarrow o$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ 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 $l1_orders_2 : \iota \Rightarrow o$ be given. Let $r1_orders_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $u1_orders_2 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((r1_tarski X0 X1) \wedge (r1_tarski X1 X2)) \Rightarrow (r1_tarski X0 X2) \quad (2)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 X0 X0))) \Rightarrow (\forall X2. \forall X3. (g1_orders_2 X0 X1 = g1_orders_2 X2 X3) \Rightarrow ((X0 = X2) \wedge (X1 = X3))) \quad (4)$$

Assume the following.

$$\forall X0. (m1_subset_1 X0 k5_numbers) \Rightarrow ((v1_orders_2 (g1_orders_2 (k15_pre_poly X0) (k4_groeb_1 X0))) \wedge (v4_dickson (g1_orders_2 (k15_pre_poly X0) (k4_groeb_1 X0)))) \quad (5)$$

Assume the following.

$$\forall X0.(v3_ordinal1\ X0)\Rightarrow((v1_partfun1\ (k4_groeb_1\ X0)\ (k15_pre_poly\ X0))\wedge((v1_relat_2\ (k4_groeb_1\ X0))\wedge((v4_relat_2\ (k4_groeb_1\ X0))\wedge((v8_relat_2\ (k4_groeb_1\ X0))\wedge(m1_subset_1\ (k4_groeb_1\ X0)\ (k1_zfmisc_1\ (k2_zfmisc_1\ (k15_pre_poly\ X0)\ (k15_pre_poly\ X0))))))))))\tag{6}$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1\ X1\ (k1_zfmisc_1\ (k2_zfmisc_1\ X0\ X0)))\Rightarrow((v1_orders_2\ (g1_orders_2\ X0\ X1))\wedge(l1_orders_2\ (g1_orders_2\ X0\ X1)))\tag{7}$$

Assume the following.

$$\forall X0.(l1_orders_2\ X0)\Rightarrow(\forall X1.(m1_subset_1\ X1\ (k1_zfmisc_1\ (u1_struct_0\ X0)))\Rightarrow(\forall X2.(r1_dickson\ X0\ X1\ X2)\Leftrightarrow((r1_tarski\ X2\ X1)\wedge(\forall X3.(m1_subset_1\ X3\ (u1_struct_0\ X0))\Rightarrow(\neg(X3\in X1)\wedge(\forall X4.(m1_subset_1\ X4\ (u1_struct_0\ X0))\Rightarrow(\neg(X4\in X2)\wedge(r1_orders_2\ X0\ X4\ X3))))))))))\tag{8}$$

Assume the following.

$$\forall X0.(l1_orders_2\ X0)\Rightarrow((v4_dickson\ X0)\Leftrightarrow(\forall X1.(m1_subset_1\ X1\ (k1_zfmisc_1\ (u1_struct_0\ X0)))\Rightarrow(\exists X2.(r1_dickson\ X0\ X1\ X2)\wedge(v1_finset_1\ X2))))\tag{9}$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k4_ordinal1)\Rightarrow(v7_ordinal1\ X0)\tag{10}$$

Assume the following.

$$\forall X0.(v7_ordinal1\ X0)\Rightarrow((v3_ordinal1\ X0)\wedge(v7_ordinal1\ X0))\tag{11}$$

Assume the following.

$$\forall X0.(l1_orders_2\ X0)\Rightarrow((v1_orders_2\ X0)\Rightarrow(X0 = g1_orders_2\ (u1_struct_0\ X0)\ (u1_orders_2\ X0)))\tag{12}$$

Theorem 1

$$\forall X0.(m1_subset_1\ X0\ k5_numbers)\Rightarrow(\forall X1.(m1_subset_1\ X1\ (k1_zfmisc_1\ (u1_struct_0\ (g1_orders_2\ (k15_pre_poly\ X0)\ (k4_groeb_1\ X0))))\Rightarrow(\exists X2.((v1_finset_1\ X2)\wedge(m1_subset_1\ X2\ (k1_zfmisc_1\ (k15_pre_poly\ X0))))\wedge(r1_dickson\ (g1_orders_2\ (k15_pre_poly\ X0)\ (k4_groeb_1\ X0))\ X1\ X2)))\tag{13}$$