

t31_ec_pf_1

(TMNqN9FcrCtDHc8Z5UnEZsbrgmgJ1dFUEif)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_int_2 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k9_int_3 : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $v2_ec_pf_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_binom : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v6_struct_0 : \iota \Rightarrow o$ be given. Let $v13_algstr_0 : \iota \Rightarrow o$ be given. Let $v33_algstr_0 : \iota \Rightarrow o$ be given. Let $v3_group_1 : \iota \Rightarrow o$ be given. Let $v5_group_1 : \iota \Rightarrow o$ 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 $v4_vectsp_1 : \iota \Rightarrow o$ be given. Let $v5_vectsp_1 : \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v36_algstr_0 : \iota \Rightarrow o$ be given. Let $l6_algstr_0 : \iota \Rightarrow o$ be given. Let $l2_algstr_0 : \iota \Rightarrow o$ be given. Let $l5_algstr_0 : \iota \Rightarrow o$ be given. Let $l4_algstr_0 : \iota \Rightarrow o$ be given. Let $l4_struct_0 : \iota \Rightarrow o$ be given. Let $l3_struct_0 : \iota \Rightarrow o$ be given. Let $l3_algstr_0 : \iota \Rightarrow o$ be given. Let $v1_group_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.((v7_ordinal1 X1) \wedge (\\ & \quad v1_int_2 X1)) \Rightarrow (\forall X2.(m1_subset_1 X2 (u1_struct_0 (k9_int_3 \\ & \quad X1))) \Rightarrow (\neg(X2 \neq k6_numbers) \wedge (k2_binom (k9_int_3 X1) X2 X0 = k6_numbers)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 np_2) \wedge (m2_subset_1 np_2 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_2 k5_numbers) \wedge (m1_subset_1 np_2 k1_numbers)) \end{aligned} \quad (2)$$

Assume the following.

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

Assume the following.

$$\begin{aligned} \forall X0.((v7_ordinal1\ X0)\wedge(v1_int_2\ X0))\Rightarrow((\neg v6_struct_0 \\ (k9_int_3\ X0))\wedge((v13_algstr_0\ (k9_int_3\ X0))\wedge((v33_algstr_0 \\ (k9_int_3\ X0))\wedge((v3_group_1\ (k9_int_3\ X0))\wedge((v5_group_1\ (k9_int_3 \\ X0))\wedge((v2_rlvect_1\ (k9_int_3\ X0))\wedge((v3_rlvect_1\ (k9_int_3\ X0))\wedge \\ ((v4_rlvect_1\ (k9_int_3\ X0))\wedge((v4_vectsp_1\ (k9_int_3\ X0))\wedge(\\ v5_vectsp_1\ (k9_int_3\ X0)))))))))) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0.((\neg v1_xboole_0\ X0)\wedge(v7_ordinal1\ X0))\Rightarrow((\neg v2_struct_0 \\ (k9_int_3\ X0))\wedge(v36_algstr_0\ (k9_int_3\ X0))) \quad (5)$$

Assume the following.

$$\forall X0.(l6_algstr_0\ X0)\Rightarrow((l2_algstr_0\ X0)\wedge(l5_algstr_0\ X0)) \quad (6)$$

Assume the following.

$$\forall X0.(l5_algstr_0\ X0)\Rightarrow((l4_algstr_0\ X0)\wedge(l4_struct_0\ X0)) \quad (7)$$

Assume the following.

$$\forall X0.(l4_algstr_0\ X0)\Rightarrow((l3_struct_0\ X0)\wedge(l3_algstr_0\ X0)) \quad (8)$$

Assume the following.

$$\forall X0.(v7_ordinal1\ X0)\Rightarrow(l6_algstr_0\ (k9_int_3\ X0)) \quad (9)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.\forall X2.(((\neg v2_struct_0\ X0)\wedge((v1_group_1 \\ X0)\wedge(l3_algstr_0\ X0)))\wedge((m1_subset_1\ X1\ (u1_struct_0\ X0))\wedge(\\ v7_ordinal1\ X2)))\Rightarrow(m1_subset_1\ (k2_binom\ X0\ X1\ X2)\ (u1_struct_0 \\ X0)) \end{aligned} \quad (10)$$

Assume the following.

$$\begin{aligned} \forall X0.((v7_ordinal1\ X0)\wedge(v1_int_2\ X0))\Rightarrow(\forall X1.(m1_subset_1 \\ X1\ (u1_struct_0\ (k9_int_3\ X0)))\Rightarrow((v2_ec_pf_1\ X1\ X0)\Leftrightarrow((X1\neq k6_numbers)\wedge \\ (\exists X2.(m1_subset_1\ X2\ (u1_struct_0\ (k9_int_3\ X0)))\wedge(k2_binom \\ (k9_int_3\ X0)\ X2\ np_2 = X1)))))) \end{aligned} \quad (11)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k4_ordinal1)\Rightarrow(v7_ordinal1\ X0) \quad (12)$$

Assume the following.

$$\forall X0.(l4_algstr_0\ X0)\Rightarrow(((\neg v2_struct_0\ X0)\wedge(v4_vectsp_1 \\ X0))\Rightarrow((\neg v2_struct_0\ X0)\wedge(v1_group_1\ X0))) \quad (13)$$

Assume the following.

$$\forall X0.((v7_ordinal1\ X0)\wedge(v1_int_2\ X0))\Rightarrow((\neg v1_xboole_0\ X0)\wedge((v7_ordinal1\ X0)\wedge(v1_int_2\ X0))) \quad (14)$$

Theorem 1

$$\forall X0.((v7_ordinal1\ X0)\wedge(v1_int_2\ X0))\Rightarrow(\forall X1.(m1_subset_1\ X1\ (u1_struct_0\ (k9_int_3\ X0)))\Rightarrow((X1\neq k6_numbers)\Rightarrow(v2_ec_pf_1\ (k2_binom\ (k9_int_3\ X0)\ X1\ np_2)\ X0)))$$