

l35_ec_pf_1

(TMVcUQ8tAfGwCrcaH6VHTiA9tHKnSYNzhDk)

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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 $k2_binom : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ 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 $l6_algstr_0 : \iota \Rightarrow o$ be given. Let $v1_group_1 : \iota \Rightarrow o$ be given. Let $l3_algstr_0 : \iota \Rightarrow o$ 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 $r1_int_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0. (&v7_ordinal1 X0) \Rightarrow ((\neg r1_xxreal_0 X0 \ np_1) \Rightarrow (((\neg v2_struct_0 \\ &(k9_int_3 X0)) \wedge (\neg v6_struct_0 (k9_int_3 X0)) \wedge (v13_algstr_0 \\ &(k9_int_3 X0)) \wedge (v33_algstr_0 (k9_int_3 X0)) \wedge (v3_group_1 (\\ &k9_int_3 X0)) \wedge (v5_group_1 (k9_int_3 X0)) \wedge (v2_rlvect_1 (k9_int_3 \\ &X0)) \wedge (v3_rlvect_1 (k9_int_3 X0)) \wedge (v4_rlvect_1 (k9_int_3 X0)) \wedge \\ &((v4_vectsp_1 (k9_int_3 X0)) \wedge (v5_vectsp_1 (k9_int_3 X0)) \wedge (\\ &l6_algstr_0 (k9_int_3 X0)))))) \Leftrightarrow ((v7_ordinal1 X0) \wedge (v1_int_2 \\ &X0))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. (&\neg v2_struct_0 X0) \wedge ((v1_group_1 X0) \wedge ((v3_group_1 \\ &X0) \wedge (l3_algstr_0 X0))) \Rightarrow (\forall X1. (m1_subset_1 X1 (u1_struct_0 \\ &X0)) \Rightarrow (\forall X2. (v7_ordinal1 X2) \Rightarrow (\forall X3. (v7_ordinal1 \\ &X3) \Rightarrow (k2_binom X0 (k2_binom X0 X1 X2) X3 = k2_binom X0 X1 (k3_xcmplx_0 \\ &X2 X3)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. (l6_algstr_0 X0) \Rightarrow ((l2_algstr_0 X0) \wedge (l5_algstr_0 X0)) \quad (3)$$

Assume the following.

$$\forall X0.(l5_algstr_0 X0) \Rightarrow ((l4_algstr_0 X0) \wedge (l4_struct_0 X0)) \quad (4)$$

Assume the following.

$$\forall X0.(l4_algstr_0 X0) \Rightarrow ((l3_struct_0 X0) \wedge (l3_algstr_0 X0)) \quad (5)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow ((v1_int_2 X0) \Leftrightarrow ((\neg r1_xxreal_0 X0 \quad np_1) \wedge (\forall X1.(v7_ordinal1 X1) \Rightarrow (\neg(r1_int_1 X1 X0) \wedge ((X1 \neq np_1) \wedge (X1 \neq X0))))))) \quad (6)$$

Assume the following.

$$\forall X0.(l4_algstr_0 X0) \Rightarrow (((\neg v2_struct_0 X0) \wedge (v4_vectsp_1 X0)) \Rightarrow ((\neg v2_struct_0 X0) \wedge (v1_group_1 X0))) \quad (7)$$

Theorem 1

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow (\forall X2. ((v7_ordinal1 X2) \wedge (v1_int_2 X2)) \Rightarrow (\forall X3.(m1_subset_1 X3 (u1_struct_0 (k9_int_3 X2))) \Rightarrow (k2_binom (k9_int_3 X2) (k2_binom (k9_int_3 X2) X3 X0) X1 = k2_binom (k9_int_3 X2) X3 (k3_xcmplx_0 X0 X1))))))$$