

t68_polyform

(TMFVY9AiCv1tLJQLwetrTEgAyYSwnnf8yGj)

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Let $v2_polyform : \iota \Rightarrow o$ be given. Let $v3_polyform : \iota \Rightarrow o$ be given. Let $v4_polyform : \iota \Rightarrow o$ be given. Let $l1_polyform : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k17_polyform : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_polyform : \iota \Rightarrow \iota$ be given. Let $k4_struct_0 : \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k2_struct_0 : \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ 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 $l2_struct_0 : \iota \Rightarrow o$ be given. Let $l1_struct_0 : \iota \Rightarrow o$ be given. Let $l1_algstr_0 : \iota \Rightarrow o$ be given. Let $l1_vectsp_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $k2_bspace : \iota$ 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 $v4_vectsp_1 : \iota \Rightarrow o$ be given. Let $v5_vectsp_1 : \iota \Rightarrow o$ 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 $v1_int_1 : \iota \Rightarrow o$ be given. Let $v8_vectsp_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v9_vectsp_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v10_vectsp_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v11_vectsp_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_matrlin : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.((v2_polyform X0) \wedge ((v3_polyform X0) \wedge ((v4_polyform \\ X0) \wedge (l1_polyform X0)))) \Rightarrow (k2_struct_0 (k17_polyform X0 (k7_polyform \\ X0)) = k2_tarski (k4_struct_0 (k17_polyform X0 (k7_polyform X0))) \\ (k1_tarski X0)) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 X1) \Rightarrow ((v1_xboole_0 X1) \vee (X0 \in X1)) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1_xboole_0 X0)\wedge((\neg v1_xboole_0 X1)\wedge(m1_subset_1 X1 (k1_zfmisc_1 X0))))\Rightarrow(\forall X2.(m2_subset_1 X2 X0 X1)\Leftrightarrow(m1_subset_1 X2 X1)) \quad (3)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (4)$$

Assume the following.

$$(\neg v1_xboole_0 k4_ordinal1)\wedge(v3_ordinal1 k4_ordinal1) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.\neg v1_xboole_0 (k2_tarski X0 X1) \quad (6)$$

Assume the following.

$$\forall X0.(l6_algstr_0 X0)\Rightarrow((l2_algstr_0 X0)\wedge(l5_algstr_0 X0)) \quad (7)$$

Assume the following.

$$\forall X0.(l2_struct_0 X0)\Rightarrow(l1_struct_0 X0) \quad (8)$$

Assume the following.

$$\forall X0.(l2_algstr_0 X0)\Rightarrow((l2_struct_0 X0)\wedge(l1_algstr_0 X0)) \quad (9)$$

Assume the following.

$$\forall X0.(l1_struct_0 X0)\Rightarrow(\forall X1.(l1_vectsp_1 X1 X0)\Rightarrow(l2_algstr_0 X1)) \quad (10)$$

Assume the following.

$$\forall X0.((v2_polyform X0)\wedge((v3_polyform X0)\wedge((v4_polyform X0)\wedge(l1_polyform X0))))\Rightarrow(m2_subset_1 (k7_polyform X0) k1_numbers k5_numbers) \quad (11)$$

Assume the following.

$$m1_subset_1 k5_numbers (k1_zfmisc_1 k1_numbers) \quad (12)$$

Assume the following.

$$\begin{aligned} &(\neg v2_struct_0 k2_bspace)\wedge((\neg v6_struct_0 k2_bspace)\wedge((v13_algstr_0 \\ &k2_bspace)\wedge((v33_algstr_0 k2_bspace)\wedge((v3_group_1 k2_bspace)\wedge \\ &((v5_group_1 k2_bspace)\wedge((v4_vectsp_1 k2_bspace)\wedge((v5_vectsp_1 \\ &k2_bspace)\wedge((v2_rlvect_1 k2_bspace)\wedge((v3_rlvect_1 k2_bspace)\wedge \\ &((v4_rlvect_1 k2_bspace)\wedge(l6_algstr_0 k2_bspace)))))))))) \quad (13) \end{aligned}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (((v2_polyform\ X0) \wedge ((v3_polyform\ X0) \wedge \\ & ((v4_polyform\ X0) \wedge (l1_polyform\ X0)))) \wedge (v1_int_1\ X1)) \Rightarrow ((\neg v2_struct_0 \\ & (k17_polyform\ X0\ X1)) \wedge ((v13_algstr_0\ (k17_polyform\ X0\ X1)) \wedge (\\ & (v8_vectsp_1\ (k17_polyform\ X0\ X1)\ k2_bspace) \wedge ((v9_vectsp_1\ (\\ & k17_polyform\ X0\ X1)\ k2_bspace) \wedge ((v10_vectsp_1\ (k17_polyform \\ & X0\ X1)\ k2_bspace) \wedge ((v11_vectsp_1\ (k17_polyform\ X0\ X1)\ k2_bspace) \wedge \\ & ((v2_rlvect_1\ (k17_polyform\ X0\ X1)) \wedge ((v3_rlvect_1\ (k17_polyform \\ & X0\ X1)) \wedge ((v4_rlvect_1\ (k17_polyform\ X0\ X1)) \wedge ((v1_matrlin\ (k17_polyform \\ & X0\ X1)\ k2_bspace) \wedge (l1_vectsp_1\ (k17_polyform\ X0\ X1)\ k2_bspace)))))))))) \\ & \hspace{15em} (14) \end{aligned}$$

Assume the following.

$$\forall X0. (l1_struct_0\ X0) \Rightarrow (k2_struct_0\ X0 = u1_struct_0\ X0) \quad (15)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (X2 = k2_tarSKI\ X0\ X1) \Leftrightarrow (\forall X3. \\ & (X3 \in X2) \Leftrightarrow ((X3 = X0) \vee (X3 = X1))) \end{aligned} \quad (16)$$

Assume the following.

$$\forall X0. (m1_subset_1\ X0\ k4_ordinal1) \Rightarrow (v7_ordinal1\ X0) \quad (17)$$

Assume the following.

$$\forall X0. (v7_ordinal1\ X0) \Rightarrow (v1_int_1\ X0) \quad (18)$$

Assume the following.

$$\forall X0. (v1_xboole_0\ X0) \Rightarrow (\forall X1. (m1_subset_1\ X1\ (k1_zfmisc_1\ X0)) \Rightarrow (v1_xboole_0\ X1)) \quad (19)$$

Theorem 1

$$\begin{aligned} & \forall X0. ((v2_polyform\ X0) \wedge ((v3_polyform\ X0) \wedge ((v4_polyform \\ & X0) \wedge (l1_polyform\ X0)))) \Rightarrow (\forall X1. (m1_subset_1\ X1\ (u1_struct_0 \\ & (k17_polyform\ X0\ (k7_polyform\ X0)))) \Rightarrow ((X1 = k4_struct_0\ (k17_polyform \\ & X0\ (k7_polyform\ X0))) \vee (X1 = k1_tarSKI\ X0))) \end{aligned}$$