

t65_polyform

(TMVXsHeU3Axb5udhdxgr7rgoTHqJRZk28Lg)

October 27, 2020

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 $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k2_struct_0 : \iota \Rightarrow \iota$ be given. Let $k17_polyform : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_polyform : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ 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 $v2_struct_0 : \iota \Rightarrow o$ be given. Let $l1_struct_0 : \iota \Rightarrow o$ 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 $l2_struct_0 : \iota \Rightarrow o$ 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 $k2_bspace : \iota$ 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.

$$\forall X0.((v2_polyform X0) \wedge ((v3_polyform X0) \wedge ((v4_polyform X0) \wedge (l1_polyform X0)))) \Rightarrow (m1_subset_1 (k1_tarski X0) (u1_struct_0 (k17_polyform X0) (k7_polyform X0))) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 X1) \Rightarrow ((v1_xboole_0 X1) \vee (X0 \in X1)) \quad (2)$$

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.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge (l1_struct_0 X0)) \Rightarrow (\neg v1_xboole_0 (u1_struct_0 X0)) \quad (6)$$

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.

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

Assume the following.

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

Assume the following.

$$\forall X0. (m1_subset_1\ X0\ k4_ordinal1) \Rightarrow (v7_ordinal1\ X0) \quad (16)$$

Assume the following.

$$\forall X0. (v7_ordinal1\ X0) \Rightarrow (v1_int_1\ X0) \quad (17)$$

Assume the following.

$$\forall X0. (v1_xboole_0\ X0) \Rightarrow (\forall X1. (m1_subset_1\ X1\ (k1_zfmisc_1\ X0)) \Rightarrow (v1_xboole_0\ X1)) \quad (18)$$

Theorem 1

$$\begin{aligned} & \forall X0. ((v2_polyform\ X0) \wedge ((v3_polyform\ X0) \wedge ((v4_polyform \\ & X0) \wedge (l1_polyform\ X0)))) \Rightarrow (k1_tarski\ X0 \in k2_struct_0\ (k17_polyform \\ & X0\ (k7_polyform\ X0))) \end{aligned}$$