

t72_polyform

(TMZS1d35zHzQdAgYbWUeWTmhkFKssUfnYsF)

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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 $k8_polyform : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k3_bspace : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_struct_0 : \iota \Rightarrow \iota$ be given. Let $k2_bspace : \iota$ 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 $v1_relat_1 : \iota \Rightarrow o$ be given. Let $u1_polyform : \iota \Rightarrow \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $v1_pre_poly : \iota \Rightarrow o$ be given. Let $v1_int_1 : \iota \Rightarrow o$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $r1_xreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_struct_0 : \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 X1) \Rightarrow ((v1_xboole_0 X1) \vee (X0 \in X1)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. ((\neg v1_xboole_0 X0) \wedge ((\neg v1_xboole_0 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X0)))) \Rightarrow (\forall X2. (m2_subset_1 X2 X0 X1) \Leftrightarrow (m1_subset_1 X2 X1)) \quad (2)$$

Assume the following.

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

Assume the following.

$$(\neg v1_xboole_0 k4_ordinal1) \wedge (v3_ordinal1 k4_ordinal1) \quad (4)$$

Assume the following.

$$\forall X0. \neg v1_xboole_0 (k1_tarski X0) \quad (5)$$

Assume the following.

$$\begin{aligned} \forall X0. (l1_polyform X0) \Rightarrow & ((v1_relat_1 (u1_polyform X0)) \wedge \\ ((v1_funct_1 (u1_polyform X0)) \wedge & ((v1_finseq_1 (u1_polyform X0)) \wedge \\ (v1_pre_poly (u1_polyform X0)))))) & \end{aligned} \quad (6)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. ((v2_polyform X0) \wedge & ((v3_polyform X0) \wedge \\ (v4_polyform X0) \wedge (l1_polyform X0))) & \wedge (v1_int_1 X1) \Rightarrow (v1_finset_1 \\ (k8_polyform X0 X1)) & \end{aligned} \quad (7)$$

Assume the following.

$$m1_subset_1 k5_numbers (k1_zfmisc_1 k1_numbers) \quad (8)$$

Assume the following.

$$\begin{aligned} \forall X0. ((v1_relat_1 X0) \wedge & ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow \\ (m2_subset_1 (k3_finseq_1 X0) & k1_numbers k5_numbers) \end{aligned} \quad (9)$$

Assume the following.

$$\begin{aligned} \forall X0. ((v2_polyform X0) \wedge & ((v3_polyform X0) \wedge ((v4_polyform \\ X0) \wedge (l1_polyform X0)))) & \Rightarrow (\forall X1. (v1_int_1 X1) \Rightarrow (\forall X2. \\ (v1_finset_1 X2) \Rightarrow ((X2 = & k8_polyform X0 X1) \Leftrightarrow (((\neg r1_xreal_0 (k4_xcmplx_0 \\ np_1) X1) \Rightarrow (X2 = k1_xboole_0)) & \wedge (((X1 = k4_xcmplx_0 np_1) \Rightarrow (X2 = \\ k1_tarski k1_xboole_0)) \wedge & (\neg(\neg r1_xreal_0 X1 (k4_xcmplx_0 np_1)) \wedge \\ ((\neg r1_xreal_0 (k7_polyform X0) & X1) \wedge (X2 \neq k10_xtuple_0 (k1_funct_1 \\ (u1_polyform X0) (k2_xcmplx_0 X1 & np_1)))))) \wedge ((X1 = k7_polyform \\ X0) \Rightarrow (X2 = k1_tarski X0)) & \wedge ((\neg r1_xreal_0 X1 (k7_polyform X0)) \Rightarrow \\ (X2 = k1_xboole_0)))))) & \end{aligned} \quad (10)$$

Assume the following.

$$\begin{aligned} \forall X0. ((v2_polyform X0) \wedge & ((v3_polyform X0) \wedge ((v4_polyform \\ X0) \wedge (l1_polyform X0)))) & \Rightarrow (k7_polyform X0 = k3_finseq_1 (u1_polyform \\ X0)) & \end{aligned} \quad (11)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. ((X1 \in X0) \Rightarrow & (k3_bspace X0 X1 = k5_struct_0 \\ k2_bspace)) \wedge ((\neg X1 \in X0) & \Rightarrow (k3_bspace X0 X1 = k4_struct_0 k2_bspace)) \end{aligned} \quad (12)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k4_ordinal1) \Rightarrow (v7_ordinal1 X0) \quad (13)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (v1_int_1 X0) \quad (14)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 X0)) \Rightarrow (v1_xboole_0 X1)) \quad (15)$$

Theorem 1

$$\begin{aligned} & \forall X0.((v2_polyform X0) \wedge ((v3_polyform X0) \wedge ((v4_polyform \\ & X0) \wedge (l1_polyform X0)))) \Rightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 \\ & (k17_polyform X0 (k7_polyform X0)))) \Rightarrow (\forall X2.(m1_subset_1 \\ & X2 (k8_polyform X0 (k7_polyform X0))) \Rightarrow ((X1 = k1_tarski X0) \Rightarrow (k3_bspace \\ & X1 X2 = k5_struct_0 k2_bspace)))) \end{aligned}$$