

# t89\_polyform

(TMMfi9C1APMiMWHwxaoB2Fv8e9iM8j7Unqb)

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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  $v5\_polyform : \iota \Rightarrow o$  be given. Let  $k7\_polyform : \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k12\_polyform : \iota \Rightarrow \iota$  be given. Let  $np\_2 : \iota$  be given. Let  $v6\_polyform : \iota \Rightarrow o$  be given. Let  $k16\_rvsum\_1 : \iota \Rightarrow \iota$  be given. Let  $k29\_polyform : \iota \Rightarrow \iota$  be given. Let  $k11\_polyform : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $v1\_abian : \iota \Rightarrow o$  be given. Let  $k28\_polyform : \iota \Rightarrow \iota$  be given. Let  $k6\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $v1\_xcmplx\_0 : \iota \Rightarrow o$  be given. Let  $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  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  $k4\_xcmplx\_0 : \iota \Rightarrow \iota$  be given. Let  $np\_0 : \iota$  be given. Let  $k4\_ordinal1 : \iota$  be given. Let  $v3\_ordinal1 : \iota \Rightarrow o$  be given. Let  $v1\_int\_1 : \iota \Rightarrow o$  be given. Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.((v2\_polyform X0) \wedge ((v3\_polyform X0) \wedge ((v4\_polyform X0) \wedge (l1\_polyform X0)))) \Rightarrow ((v5\_polyform X0) \Rightarrow (v6\_polyform X0)) \quad (1)$$

Assume the following.

$$\forall X0.((v2\_polyform X0) \wedge ((v3\_polyform X0) \wedge ((v4\_polyform X0) \wedge (l1\_polyform X0)))) \Rightarrow ((k7\_polyform X0 = np\_1) \Rightarrow (k16\_rvsum\_1 (k29\_polyform X0) = k11\_polyform X0 k6\_numbers)) \quad (2)$$

Assume the following.

$$\forall X0.((v2\_polyform X0) \wedge ((v3\_polyform X0) \wedge ((v4\_polyform X0) \wedge (l1\_polyform X0)))) \Rightarrow ((\neg v1\_abian (k7\_polyform X0)) \Rightarrow (k16\_rvsum\_1 (k28\_polyform X0) = k6\_xcmplx\_0 (k16\_rvsum\_1 (k29\_polyform X0)) np\_2)) \quad (3)$$

Assume the following.

$$\forall X0.(v1\_xboole\_0 X0) \Rightarrow (X0 = k1\_xboole\_0) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((X0 \in X1) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 X2))) \Rightarrow (m1\_subset\_1 X0 X2) \quad (5)$$

Assume the following.

$$\neg v1\_abian \ np\_1 \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1 X0 X1) \Rightarrow ((v1\_xboole\_0 X1) \vee (X0 \in X1)) \quad (7)$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0 X0) \Rightarrow (k2\_xcmplx\_0 X0 \ k6\_numbers = X0) \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((v1\_xcmplx\_0 X0) \wedge ((v1\_xcmplx\_0 X1) \wedge (v1\_xcmplx\_0 X2))) \Rightarrow (k2\_xcmplx\_0 (k2\_xcmplx\_0 X0 X1) X2 = k2\_xcmplx\_0 X0 (k2\_xcmplx\_0 X1 X2)) \quad (9)$$

Assume the following.

$$((v2\_xxreal\_0 \ np\_2) \wedge (m2\_subset\_1 \ np\_2 \ k1\_numbers \ k5\_numbers)) \wedge ((m1\_subset\_1 \ np\_2 \ k5\_numbers) \wedge (m1\_subset\_1 \ np\_2 \ k1\_numbers)) \quad (10)$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xcmplx\_0 X0) \wedge (v1\_xcmplx\_0 X1)) \Rightarrow (k2\_xcmplx\_0 X0 (k4\_xcmplx\_0 X1) = k6\_xcmplx\_0 X0 X1) \quad (11)$$

Assume the following.

$$(m2\_subset\_1 \ np\_0 \ k1\_numbers \ k5\_numbers) \wedge ((m1\_subset\_1 \ np\_0 \ k5\_numbers) \wedge (m1\_subset\_1 \ np\_0 \ k1\_numbers)) \quad (12)$$

Assume the following.

$$v1\_xboole\_0 \ np\_0 \quad (13)$$

Assume the following.

$$k2\_xcmplx\_0 (k4\_xcmplx\_0 \ np\_2) \ np\_2 = \ np\_0 \quad (14)$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1\_xboole\_0 X0) \wedge ((\neg v1\_xboole\_0 X1) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 X0)))) \Rightarrow (\forall X2.(m2\_subset\_1 X2 X0 X1) \Leftrightarrow (m1\_subset\_1 X2 X1)) \quad (15)$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \quad (16)$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \quad (17)$$

Assume the following.

$$(\neg v1\_xboole\_0 \ k4\_ordinal1) \wedge (v3\_ordinal1 \ k4\_ordinal1) \quad (18)$$

Assume the following.

$$m1\_subset\_1 \ k5\_numbers \ (k1\_zfmisc\_1 \ k1\_numbers) \quad (19)$$

Assume the following.

$$\forall X0. (v1\_xcmplx\_0 \ X0) \Rightarrow (v1\_xcmplx\_0 \ (k4\_xcmplx\_0 \ X0)) \quad (20)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (((v2\_polyform \ X0) \wedge ((v3\_polyform \ X0) \wedge \\ & ((v4\_polyform \ X0) \wedge (l1\_polyform \ X0)))) \wedge (v1\_int\_1 \ X1)) \Rightarrow (m2\_subset\_1 \\ & (k11\_polyform \ X0 \ X1) \ k1\_numbers \ k5\_numbers) \end{aligned} \quad (21)$$

Assume the following.

$$\begin{aligned} & \forall X0. ((v2\_polyform \ X0) \wedge ((v3\_polyform \ X0) \wedge ((v4\_polyform \\ & X0) \wedge (l1\_polyform \ X0)))) \Rightarrow (k12\_polyform \ X0 = k11\_polyform \ X0 \ k6\_numbers) \end{aligned} \quad (22)$$

Assume the following.

$$\begin{aligned} & \forall X0. ((v2\_polyform \ X0) \wedge ((v3\_polyform \ X0) \wedge ((v4\_polyform \\ & X0) \wedge (l1\_polyform \ X0)))) \Rightarrow ((v6\_polyform \ X0) \Leftrightarrow (k16\_rvsum\_1 \ (k28\_polyform \\ & X0) = k6\_numbers)) \end{aligned} \quad (23)$$

Assume the following.

$$k1\_xboole\_0 = the \ (\lambda X0 : \iota.v1\_xboole\_0 \ X0) \quad (24)$$

Assume the following.

$$\forall X0. \forall X1. ((v1\_xcmplx\_0 \ X0) \wedge (v1\_xcmplx\_0 \ X1)) \Rightarrow (k2\_xcmplx\_0 \ X0 \ X1 = k2\_xcmplx\_0 \ X1 \ X0) \quad (25)$$

Assume the following.

$$\forall X0. (m1\_subset\_1 \ X0 \ k4\_ordinal1) \Rightarrow (v7\_ordinal1 \ X0) \quad (26)$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0)\Rightarrow(v1\_int\_1\ X0) \quad (27)$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers)\Rightarrow(v1\_xcmplx\_0\ X0) \quad (28)$$

Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0))\Rightarrow(v1\_xboole\_0\ X1)) \quad (29)$$

**Theorem 1**

$$\forall X0.((v2\_polyform\ X0)\wedge((v3\_polyform\ X0)\wedge((v4\_polyform\ X0)\wedge(l1\_polyform\ X0))))\Rightarrow(((v5\_polyform\ X0)\wedge(k7\_polyform\ X0 = np\_1))\Rightarrow(k12\_polyform\ X0 = np\_2))$$