

# t31\_polyform

(TMVrgzHdbFU9QWEeA7kFEen9yBzyDhbdn3P)

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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  $k11\_polyform : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k7\_polyform : \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k1\_card\_1 : \iota \Rightarrow \iota$  be given. Let  $k1\_tarski : \iota \Rightarrow \iota$  be given. Let  $v1\_finset\_1 : \iota \Rightarrow o$  be given. Let  $k5\_card\_1 : \iota \Rightarrow \iota$  be given. Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v1\_finseq\_1 : \iota \Rightarrow o$  be given. Let  $k3\_finseq\_1 : \iota \Rightarrow \iota$  be given. Let  $u1\_polyform : \iota \Rightarrow \iota$  be given. Let  $v1\_pre\_poly : \iota \Rightarrow o$  be given. Let  $v1\_int\_1 : \iota \Rightarrow o$  be given. Let  $k8\_polyform : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k4\_ordinal1 : \iota$  be given. Let  $r1\_xreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k4\_xcmplx\_0 : \iota \Rightarrow \iota$  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  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. k1\_card\_1 (k1\_tarski X0) = np\_1 \quad (1)$$

Assume the following.

$$\forall X0. (v1\_finset\_1 X0) \Rightarrow (k5\_card\_1 X0 = k1\_card\_1 X0) \quad (2)$$

Assume the following.

$$\forall X0. ((v1\_relat\_1 X0) \wedge ((v1\_funct\_1 X0) \wedge (v1\_finseq\_1 X0))) \Rightarrow (k3\_finseq\_1 X0 = k1\_card\_1 X0) \quad (3)$$

Assume the following.

$$\forall X0. (l1\_polyform X0) \Rightarrow ((v1\_relat\_1 (u1\_polyform X0)) \wedge ((v1\_funct\_1 (u1\_polyform X0)) \wedge ((v1\_finseq\_1 (u1\_polyform X0)) \wedge (v1\_pre\_poly (u1\_polyform X0)))))) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (((v2\_polyform X0) \wedge ((v3\_polyform X0) \wedge ((v4\_polyform X0) \wedge (l1\_polyform X0)))) \wedge (v1\_int\_1 X1)) \Rightarrow (v1\_finset\_1 (k8\_polyform X0 X1)) \quad (5)$$

Assume the following.

$$\forall X0.(v1\_finset\_1 X0) \Rightarrow (m1\_subset\_1 (k5\_card\_1 X0) k4\_ordinal1) \quad (6)$$

Assume the following.

$$\forall X0.((v2\_polyform X0) \wedge ((v3\_polyform X0) \wedge ((v4\_polyform X0) \wedge (l1\_polyform X0)))) \Rightarrow (\forall X1.(v1\_int\_1 X1) \Rightarrow (k11\_polyform X0 X1 = k5\_card\_1 (k8\_polyform X0 X1))) \quad (7)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v2\_polyform X0) \wedge ((v3\_polyform X0) \wedge ((v4\_polyform X0) \wedge (l1\_polyform X0)))) \Rightarrow (\forall X1.(v1\_int\_1 X1) \Rightarrow (\forall X2. \\ & (v1\_finset\_1 X2) \Rightarrow ((X2 = k8\_polyform X0 X1) \Leftrightarrow (((\neg r1\_xreal\_0 (k4\_xcmplx\_0 np\_1) X1) \Rightarrow (X2 = \\ & k1\_tarSKI k1\_xboole\_0)) \wedge ((X1 = k4\_xcmplx\_0 np\_1) \Rightarrow (X2 = \\ & k1\_tarSKI k1\_xboole\_0)) \wedge ((\neg r1\_xreal\_0 X1 (k4\_xcmplx\_0 np\_1)) \wedge \\ & ((\neg r1\_xreal\_0 (k7\_polyform X0) X1) \wedge (X2 \neq k10\_xtuple\_0 (k1\_funct\_1 \\ & (u1\_polyform X0) (k2\_xcmplx\_0 X1 np\_1)))))) \wedge (((X1 = k7\_polyform X0) \Rightarrow (X2 = k1\_tarSKI X0)) \wedge ((\neg r1\_xreal\_0 X1 (k7\_polyform X0)) \Rightarrow (X2 = k1\_xboole\_0)))))) \quad (8) \end{aligned}$$

Assume the following.

$$\forall X0.((v2\_polyform X0) \wedge ((v3\_polyform X0) \wedge ((v4\_polyform X0) \wedge (l1\_polyform X0)))) \Rightarrow (k7\_polyform X0 = k3\_finseq\_1 (u1\_polyform X0)) \quad (9)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k4\_ordinal1) \Rightarrow (v7\_ordinal1 X0) \quad (10)$$

Assume the following.

$$\forall X0.(v7\_ordinal1 X0) \Rightarrow (v1\_int\_1 X0) \quad (11)$$

Assume the following.

$$\forall X0.((v1\_relat\_1 X0) \wedge ((v1\_funct\_1 X0) \wedge (v1\_finseq\_1 X0))) \Rightarrow ((v1\_relat\_1 X0) \wedge ((v1\_funct\_1 X0) \wedge (v1\_finset\_1 X0))) \quad (12)$$

**Theorem 1**

$$\forall X0.((v2\_polyform X0) \wedge ((v3\_polyform X0) \wedge ((v4\_polyform X0) \wedge (l1\_polyform X0)))) \Rightarrow (k11\_polyform X0 (k7\_polyform X0) = np\_1)$$