

# t3\_polyform

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Let  $v1\_int\_1 : \iota \Rightarrow o$  be given. Let  $r1\_xreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $np\_1 : \iota$  be given. Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $k4\_ordinal1 : \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k16\_complex1 : \iota \Rightarrow \iota$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $k4\_xcmplx\_0 : \iota \Rightarrow \iota$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$m1\_subset\_1 \ k1\_xboole\_0 \ k4\_ordinal1 \tag{1}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{2}$$

Assume the following.

$$\forall X0.(v1\_int\_1 \ X0) \Rightarrow ((\neg r1\_xreal\_0 \ np\_1 \ X0) \Leftrightarrow (r1\_xreal\_0 \ X0 \ k1\_xboole\_0)) \tag{3}$$

Assume the following.

$$\forall X0.(v1\_int\_1 \ X0) \Rightarrow ((v7\_ordinal1 \ (k16\_complex1 \ X0)) \wedge (v1\_xreal\_0 \ (k16\_complex1 \ X0))) \tag{4}$$

Assume the following.

$$k1\_xboole\_0 = the \ (\lambda X0 : \iota.v1\_xboole\_0 \ X0) \tag{5}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 \ X0) \Rightarrow (((r1\_xreal\_0 \ k6\_numbers \ X0) \Rightarrow (k16\_complex1 \ X0 = X0)) \wedge ((\neg r1\_xreal\_0 \ k6\_numbers \ X0) \Rightarrow (k16\_complex1 \ X0 = k4\_xcmplx\_0 \ X0))) \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xreal\_0 \ X0) \wedge (v1\_xreal\_0 \ X1)) \Rightarrow (r1\_xreal\_0 \ X0 \ X1) \vee (r1\_xreal\_0 \ X1 \ X0) \tag{7}$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k4\_ordinal1) \Rightarrow (v7\_ordinal1 X0) \quad (8)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow (v1\_xxreal\_0 X0) \quad (9)$$

Assume the following.

$$\forall X0.(v1\_int\_1 X0) \Rightarrow (v1\_xreal\_0 X0) \quad (10)$$

Assume the following.

$$\forall X0.(v7\_ordinal1 X0) \Rightarrow (v1\_xxreal\_0 X0) \quad (11)$$

**Theorem 1**  $\forall X0.(v1\_int\_1 X0) \Rightarrow ((r1\_xxreal\_0 np\_1 X0) \Rightarrow (v7\_ordinal1 X0)).$