

# t16\_pre\_poly (TM- MJTrFa63Yefrwzp9RAwFgvYKCQpufMtA4)

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Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k4\_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k9\_setfam\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. (X2 \in k4\_partfun1\ X0\ X1) \Rightarrow ((v1\_funct\_1\ X2) \wedge (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1)))) \quad (1)$$

Assume the following.

$$\forall X0. k9\_setfam\_1\ X0 = k1\_zfmisc\_1\ X0 \quad (2)$$

Assume the following.

$$\forall X0. \neg v1\_xboole\_0\ (k1\_zfmisc\_1\ X0) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (r1\_tarski\ X0\ X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. ((\neg v1\_xboole\_0\ X0) \Rightarrow ((m1\_subset\_1\ X1\ X0) \Leftrightarrow (X1 \in X0))) \wedge ((v1\_xboole\_0\ X0) \Rightarrow ((m1\_subset\_1\ X1\ X0) \Leftrightarrow (v1\_xboole\_0\ X1))) \quad (5)$$

## Theorem 1

$$\forall X0. \forall X1. r1\_tarski\ (k4\_partfun1\ X0\ X1)\ (k9\_setfam\_1\ (k2\_zfmisc\_1\ X0\ X1))$$