

t15\_pre\_poly  
(TMQHqnS2Sn2GyREDdXCKMfcPVXgRzrxDG4W)

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

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

Assume the following.

$$\forall X0.\forall X1.\forall X2.((v1\_funct\_1 X2) \wedge (m1\_subset\_1 X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 X1)))) \Rightarrow (X2 \in k4\_partfun1 X0 X1) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.(m1\_subset\_1 X3 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X1 X2))) \Rightarrow ((r1\_tarski X0 X3) \Rightarrow (m1\_subset\_1 X0 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X1 X2)))) \tag{3}$$

Assume the following.

$$\forall X0.((v1\_relat\_1 X0) \wedge (v1\_funct\_1 X0)) \Rightarrow (\forall X1.(r1\_tarski X1 X0) \Rightarrow ((v1\_relat\_1 X1) \wedge (v1\_funct\_1 X1))) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1\_subset\_1 X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 X1))) \Rightarrow (v1\_relat\_1 X2) \tag{5}$$

**Theorem 1**

$$\forall X0.\forall X1.\forall X2.(m1\_subset\_1 X2 (k4\_partfun1 X0 X1)) \Rightarrow (\forall X3.(r1\_tarski X3 X2) \Rightarrow (X3 \in k4\_partfun1 X0 X1))$$