

l77\_pre\_poly  
(TMY1rUddmZi4UPSHTS7dibVfRDwHFLfbMw9)

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Let  $v3\_ordinal1 : \iota \Rightarrow o$  be given. Let  $r8\_relat\_2 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k17\_pre\_poly : \iota \Rightarrow \iota$  be given. Let  $k15\_pre\_poly : \iota \Rightarrow \iota$  be given. Let  $v1\_partfun1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_relat\_1 : \iota \Rightarrow \iota$  be given. Let  $v1\_relat\_2 : \iota \Rightarrow o$  be given. Let  $v4\_relat\_2 : \iota \Rightarrow o$  be given. Let  $v8\_relat\_2 : \iota \Rightarrow o$  be given. Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. \forall X1. ((v1\_partfun1 X1 X0) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 X0)))) \Rightarrow (k1\_relat\_1 X1 = X0) \quad (1)$$

Assume the following.

$$\forall X0. (v3\_ordinal1 X0) \Rightarrow ((v1\_partfun1 (k17\_pre\_poly X0) (k15\_pre\_poly X0)) \wedge ((v1\_relat\_2 (k17\_pre\_poly X0)) \wedge ((v4\_relat\_2 (k17\_pre\_poly X0)) \wedge ((v8\_relat\_2 (k17\_pre\_poly X0)) \wedge (m1\_subset\_1 (k17\_pre\_poly X0) (k1\_zfmisc\_1 (k2\_zfmisc\_1 (k15\_pre\_poly X0) (k15\_pre\_poly X0)))))))) \quad (2)$$

Assume the following.

$$\forall X0. (v1\_relat\_1 X0) \Rightarrow ((v8\_relat\_2 X0) \Leftrightarrow (r8\_relat\_2 X0 (k1\_relat\_1 X0))) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (m1\_subset\_1 X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 X1))) \Rightarrow (v1\_relat\_1 X2) \quad (4)$$

**Theorem 1**

$$\forall X0. (v3\_ordinal1 X0) \Rightarrow (r8\_relat\_2 (k17\_pre\_poly X0) (k15\_pre\_poly X0))$$