

t18\_wellord1  
(TMJVFoa8AekB1azNHvt2uLmLV6bJ3zXe1PB)

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Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v4\_relat\_2 : \iota \Rightarrow o$  be given. Let  $k2\_wellord1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. v1\_relat\_1 (k2\_zfmisc\_1 X0 X1) \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. (((v1\_relat\_1 X0) \wedge (v4\_relat\_2 X0)) \wedge (v1\_relat\_1 X1)) \Rightarrow (v4\_relat\_2 (k3\_xboole\_0 X0 X1)) \tag{2}$$

Assume the following.

$$\forall X0. (v1\_relat\_1 X0) \Rightarrow (\forall X1. k2\_wellord1 X0 X1 = k3\_xboole\_0 X0 (k2\_zfmisc\_1 X1 X1)) \tag{3}$$

**Theorem 1**

$$\forall X0. \forall X1. (v1\_relat\_1 X1) \Rightarrow ((v4\_relat\_2 X1) \Rightarrow (v4\_relat\_2 (k2\_wellord1 X1 X0)))$$