

t11\_wellord1  
(TMTYrMjJgubkbebjyUQqEn2MSUiprqndytM)

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Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $k2\_wellord1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_relat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k5\_relat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. (v1\_relat\_1 X1) \Rightarrow (k2\_wellord1 X1 X0 = k5\_relat\_1 (k6\_relat\_1 X0 X1) X0) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (v1\_relat\_1 X2) \Rightarrow (k5\_relat\_1 (k6\_relat\_1 X0 X2) X1 = k6\_relat\_1 X0 (k5\_relat\_1 X2 X1)) \quad (2)$$

**Theorem 1**

$$\forall X0. \forall X1. (v1\_relat\_1 X1) \Rightarrow (k2\_wellord1 X1 X0 = k6\_relat\_1 X0 (k5\_relat\_1 X1 X0))$$