

## t8\_ordinal6

(TMNvutYX9FvbcAC1yMGsz2caGziPqJ4e2vU)

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Let  $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_wellord2 : \iota \Rightarrow \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $k1\_relat\_1 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. (v1\_relat\_1 X2) \Rightarrow ((k4\_tarski X0 X1 \in X2) \Rightarrow ((X0 \in k1\_relat\_1 X2) \wedge (X1 \in k1\_relat\_1 X2))) \quad (1)$$

Assume the following.

$$\forall X0. v1\_relat\_1 (k1\_wellord2 X0) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (v1\_relat\_1 X1) \Rightarrow ((X1 = k1\_wellord2 X0) \Leftrightarrow ((k1\_relat\_1 X1 = X0) \wedge (\forall X2. \forall X3. ((X2 \in X0) \wedge (X3 \in X0)) \Rightarrow ((k4\_tarski X2 X3 \in X1) \Leftrightarrow (r1\_tarski X2 X3)))))) \quad (3)$$

**Theorem 1**

$$\forall X0. \forall X1. \forall X2. (k4\_tarski X0 X1 \in k1\_wellord2 X2) \Rightarrow (r1\_tarski X0 X1)$$