

t20\_wellord2  
(TMKZw3iUkukTraxm4SLkrywjYw326KBt6YA)

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Let  $r8\_relat\_2 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_wellord2 : \iota \Rightarrow \iota$  be given. Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v8\_relat\_2 : \iota \Rightarrow o$  be given. Let  $k1\_relat\_1 : \iota \Rightarrow \iota$  be given. Let  $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(v1\_relat\_1 (k1\_wellord2 X0)) \wedge (v8\_relat\_2 (k1\_wellord2 X0)) \quad (1)$$

Assume the following.

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

Assume the following.

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

Assume the following.

$$\forall X0.(v1\_relat\_1 X0) \Rightarrow ((v8\_relat\_2 X0) \Leftrightarrow (r8\_relat\_2 X0 (k1\_relat\_1 X0))) \quad (4)$$

**Theorem 1**  $\forall X0.r8\_relat\_2 (k1\_wellord2 X0) X0$ .