

t7_wellord1
(TMbXQtfVo5RenzdoAgdZrGK6PF2F2GjuDrU)

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Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v2_wellord1 : \iota \Rightarrow o$ be given. Let $k1_relat_1 : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ 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.

$$\begin{aligned} \forall X0.(v1_relat_1 X0) \Rightarrow ((v2_wellord1 X0) \Rightarrow (\forall X1. \neg(\\ r1_tarski X1 (k1_relat_1 X0)) \wedge ((X1 \neq k1_xboole_0) \wedge (\forall X2. \\ \neg(X2 \in X1) \wedge (\forall X3.(X3 \in X1) \Rightarrow (k4_tarski X2 X3 \in X0)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (2)$$

Theorem 1

$$\begin{aligned} \forall X0.(v1_relat_1 X0) \Rightarrow (\neg(v2_wellord1 X0) \wedge ((k1_relat_1 \\ X0 \neq k1_xboole_0) \wedge (\forall X1. \neg(X1 \in k1_relat_1 X0) \wedge (\forall X2. \\ (X2 \in k1_relat_1 X0) \Rightarrow (k4_tarski X1 X2 \in X0)))))) \end{aligned}$$