

t2_wellord1
(TMGqWuxWZFSF4iWLSnSpjzUyLCdRjnHc4U2)

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Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $k1_relat_1 : \iota \Rightarrow \iota$ be given. Let $k1_wellord1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \neg(X0 \neq k1_xboole_0) \wedge (\forall X1. \neg X1 \in X0) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (v1_relat_1 X2) \Rightarrow ((X0 \in k1_wellord1 X2 X1) \Leftrightarrow ((X0 \neq X1) \wedge (k4_tarski X0 X1 \in X2))) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (v1_relat_1 X2) \Rightarrow ((k4_tarski X0 X1 \in X2) \Rightarrow ((X0 \in k1_relat_1 X2) \wedge (X1 \in k1_relat_1 X2))) \quad (3)$$

Theorem 1

$$\forall X0. \forall X1. (v1_relat_1 X1) \Rightarrow ((X0 \in k1_relat_1 X1) \vee (k1_wellord1 X1 X0 = k1_xboole_0))$$