

t23_wellord2
(TMZYgyviu2kE1V8JDuAXovpSV4N9c3ZVnav)

October 27, 2020

Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_wellord2 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $k1_relat_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. (k4_tarski X0 X1 \in k2_zfmisc_1 X2 X3) \Leftrightarrow ((X0 \in X2) \wedge (X1 \in X3)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (v1_relat_1 X2) \Rightarrow ((k4_tarski X0 X1 \in X2) \Rightarrow ((X0 \in k1_relat_1 X2) \wedge (X1 \in k1_relat_1 X2))) \quad (2)$$

Assume the following.

$$\forall X0. v1_relat_1 (k1_wellord2 X0) \quad (3)$$

Assume the following.

$$\forall X0. (v1_relat_1 X0) \Rightarrow (\forall X1. (r1_tarski X0 X1) \Leftrightarrow (\forall X2. \forall X3. (k4_tarski X2 X3 \in X0) \Rightarrow (k4_tarski X2 X3 \in X1))) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (v1_relat_1 X1) \Rightarrow ((X1 = k1_wellord2 X0) \Leftrightarrow ((k1_relat_1 X1 = X0) \wedge (\forall X2. \forall X3. ((X2 \in X0) \wedge (X3 \in X0)) \Rightarrow ((k4_tarski X2 X3 \in X1) \Leftrightarrow (r1_tarski X2 X3)))))) \quad (5)$$

Theorem 1 $\forall X0. r1_tarski (k1_wellord2 X0) (k2_zfmisc_1 X0 X0)$.