

t21_ordinal2

(TMVKPz1yMEheqrpKAF7CY888H4m1cnEineL)

October 27, 2020

Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $k3_ordinal2 : \iota \Rightarrow \iota$ be given. Let $r1_ordinal1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. \neg(X0 \in X1) \wedge (r1_tarski\ X1\ X0) \quad (1)$$

Assume the following.

$$\forall X0. (v3_ordinal1\ X0) \Rightarrow (\forall X1. (\forall X2. (v3_ordinal1\ X2) \Rightarrow ((X2 \in X1) \Rightarrow (X2 \in X0))) \Rightarrow (r1_ordinal1\ (k3_ordinal2\ X1)\ X0)) \quad (2)$$

Assume the following.

$$\forall X0. (v3_ordinal1\ X0) \Rightarrow (\forall X1. (v3_ordinal1\ X1) \Rightarrow ((r1_ordinal1\ X0\ X1) \vee (X1 \in X0))) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. ((v3_ordinal1\ X0) \wedge (v3_ordinal1\ X1)) \Rightarrow ((r1_ordinal1\ X0\ X1) \Leftrightarrow (r1_tarski\ X0\ X1)) \quad (4)$$

Assume the following.

$$\forall X0. v3_ordinal1\ (k3_ordinal2\ X0) \quad (5)$$

Theorem 1

$$\forall X0. (v3_ordinal1\ X0) \Rightarrow (\forall X1. \neg(X0 \in k3_ordinal2\ X1) \wedge (\forall X2. (v3_ordinal1\ X2) \Rightarrow (\neg(X2 \in X1) \wedge (r1_ordinal1\ X0\ X2))))$$