

t47_ordinal2
(TMVRzky67eEzdS8NHgN2uPDuYUiX5GWwWXm)

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Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $v4_ordinal1 : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k10_ordinal2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_ordinal1 : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Assume the following.

$$\forall X0. X0 \in k1_ordinal1 X0 \quad (1)$$

Assume the following.

$$\forall X0.(v3_ordinal1 X0) \Rightarrow ((\neg(\neg v4_ordinal1 X0) \wedge (\forall X1.(v3_ordinal1 X1) \Rightarrow (X0 \neq k1_ordinal1 X1))) \wedge (\neg(\exists X1.(v3_ordinal1 X1) \wedge (X0 = k1_ordinal1 X1)) \wedge (v4_ordinal1 X0))) \quad (2)$$

Assume the following.

$$\forall X0.(v3_ordinal1 X0) \Rightarrow (\forall X1.(v3_ordinal1 X1) \Rightarrow (k10_ordinal2 X0 (k1_ordinal1 X1) = k1_ordinal1 (k10_ordinal2 X0 X1))) \quad (3)$$

Assume the following.

$$\forall X0.(v3_ordinal1 X0) \Rightarrow (k10_ordinal2 X0 k1_xboole_0 = X0) \quad (4)$$

Assume the following.

$$m1_subset_1 k1_xboole_0 k4_ordinal1 \quad (5)$$

Assume the following.

$$\forall X0 : \iota \Rightarrow o. (\forall X1.(v3_ordinal1 X1) \Rightarrow ((\forall X2.(v3_ordinal1 X2) \Rightarrow ((X2 \in X1) \Rightarrow (X0 X2))) \Rightarrow (X0 X1))) \Rightarrow (\forall X1.(v3_ordinal1 X1) \Rightarrow (X0 X1)) \quad (6)$$

Assume the following.

$$\forall X0. ((v3_ordinal1 X0) \wedge (v7_ordinal1 X0)) \Rightarrow (v7_ordinal1 (k1_ordinal1 X0)) \quad (7)$$

Assume the following.

$$\forall X0.(m1_subset.1 X0 k4_ordinal1) \Rightarrow (v7_ordinal1 X0) \quad (8)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (v3_ordinal1 X0) \quad (9)$$

Theorem 1

$$\forall X0.(v3_ordinal1 X0) \Rightarrow (\exists X1.(v3_ordinal1 X1) \wedge (\exists X2. (v3_ordinal1 X2) \wedge ((v4_ordinal1 X1) \wedge ((v7_ordinal1 X2) \wedge (X0 = k10_ordinal2 X1 X2))))))$$