

t14_ordinal3

(TMcJ1TmXzEYwBuhJhPLMjRHWdKmFWx2DW56)

October 27, 2020

Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k1_ordinal1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v3_ordinal1 X0) \Rightarrow ((X0 \neq k1_xboole_0) \Rightarrow (k1_xboole_0 \in X0)) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(X0 \in k2_xboole_0 X2 (k1_tarski X1)) \Leftrightarrow ((X0 \in X2) \vee (X0 = X1)) \quad (2)$$

Assume the following.

$$np_1 = k1_ordinal1 k1_xboole_0 \quad (3)$$

Assume the following.

$$\forall X0.k1_ordinal1 X0 = k2_xboole_0 X0 (k1_tarski X0) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.(X0 \in X1) \Rightarrow (\neg X1 \in X0) \quad (5)$$

Theorem 1 $\forall X0.(v3_ordinal1 X0) \Rightarrow ((X0 \in np_1) \Rightarrow (X0 = k1_xboole_0)).$