

l13_ordinal1
(TMGNt2y9yTcexbkEmJRVGtnprLwRK23CwDp)

October 27, 2020

Let $v1_ordinal1 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v2_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$v1_xboole_0 \ k1_xboole_0 \tag{1}$$

Assume the following.

$$\forall X0.(v2_ordinal1 \ X0) \Leftrightarrow (\forall X1.\forall X2.\neg(X1 \in X0) \wedge ((X2 \in X0) \wedge (\neg X1 \in X2) \wedge ((X1 \neq X2) \wedge (\neg X2 \in X1)))) \tag{2}$$

Assume the following.

$$\forall X0.(v1_ordinal1 \ X0) \Leftrightarrow (\forall X1.(X1 \in X0) \Rightarrow (r1_tarski \ X1 \ X0)) \tag{3}$$

Assume the following.

$$\forall X0.(v1_xboole_0 \ X0) \Leftrightarrow (\forall X1.\neg X1 \in X0) \tag{4}$$

Theorem 1 $(v1_ordinal1 \ k1_xboole_0) \wedge (v2_ordinal1 \ k1_xboole_0)$.