

t67_orders_1
(TMN6HMFyk7Cqp8wm1KDPHALq36zT2v5AgzG)

October 27, 2020

Let $k1_xboole_0 : \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v6_ordinal1 : \iota \Rightarrow o$ be given. Let $k3_tarski : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. (X0 \in X1) \Rightarrow (r1_tarski X0 (k3_tarski X1)) \quad (1)$$

Assume the following.

$$\forall X0. (v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. \neg (X0 \neq k1_xboole_0) \wedge ((\forall X1. \neg (r1_tarski X1 X0) \wedge \\ & ((v6_ordinal1 X1) \wedge (\forall X2. \neg (X2 \in X0) \wedge (\forall X3. (X3 \in X1) \Rightarrow \\ & (r1_tarski X3 X2)))))) \wedge (\forall X1. \neg (X1 \in X0) \wedge (\forall X2. \neg (X2 \in \\ & X0) \wedge ((X2 \neq X1) \wedge (r1_tarski X1 X2)))))) \quad (3) \end{aligned}$$

Assume the following.

$$v1_xboole_0 k1_xboole_0 \quad (4)$$

Assume the following.

$$k1_xboole_0 = the (\lambda X0 : \iota. v1_xboole_0 X0) \quad (5)$$

Assume the following.

$$\forall X0. (v1_xboole_0 X0) \Leftrightarrow (\forall X1. \neg X1 \in X0) \quad (6)$$

Theorem 1

$$\begin{aligned} & \forall X0. \neg (X0 \neq k1_xboole_0) \wedge ((\forall X1. ((r1_tarski X1 X0) \wedge \\ & (v6_ordinal1 X1)) \Rightarrow ((X1 = k1_xboole_0) \vee (k3_tarski X1 \in X0))) \wedge \\ & \forall X1. \neg (X1 \in X0) \wedge (\forall X2. \neg (X2 \in X0) \wedge ((X2 \neq X1) \wedge (r1_tarski \\ & X1 X2)))) \end{aligned}$$