

t5_zfmodel1 (TMLFFFR-
rGb7AwbzwPFRdXmew3Lzkxk4oSR9)

October 27, 2020

Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_ordinal1 : \iota \Rightarrow o$ be given. Let $r2_zf_model : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k8_zf_model : \iota$ be given. Let $k3_tarski : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. (\neg v1_xboole_0 X0) \Rightarrow ((v1_ordinal1 X0) \Rightarrow ((r2_zf_model X0 k8_zf_model) \Leftrightarrow (\forall X1. (m1_subset_1 X1 X0) \Rightarrow (k3_tarski X1 \in X0)))) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 X1) \Rightarrow ((v1_xboole_0 X1) \vee (X0 \in X1)) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. ((\neg v1_xboole_0 X0) \Rightarrow ((m1_subset_1 X1 X0) \Leftrightarrow (X1 \in X0))) \wedge ((v1_xboole_0 X0) \Rightarrow ((m1_subset_1 X1 X0) \Leftrightarrow (v1_xboole_0 X1))) \quad (3)$$

Theorem 1

$$\forall X0. (\neg v1_xboole_0 X0) \Rightarrow ((v1_ordinal1 X0) \Rightarrow ((r2_zf_model X0 k8_zf_model) \Leftrightarrow (\forall X1. (X1 \in X0) \Rightarrow (k3_tarski X1 \in X0))))$$