

t3\_zfmodel1  
(TMdkppxzkosXqNYWopo36p2nyVfU176z5ZF)

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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  $k7\_zf\_model : \iota$  be given. Let  $k2\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} \forall X0. (\neg v1\_xboole\_0 X0) \Rightarrow ((v1\_ordinal1 X0) \Rightarrow ((r2\_zf\_model \\ X0 k7\_zf\_model) \Leftrightarrow (\forall X1. (m1\_subset\_1 X1 X0) \Rightarrow (\forall X2. \\ (m1\_subset\_1 X2 X0) \Rightarrow (k2\_tarski X1 X2 \in X0)))))) \end{aligned} \quad (1)$$

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.

$$\begin{aligned} \forall X0. \forall X1. ((\neg v1\_xboole\_0 X0) \Rightarrow ((m1\_subset\_1 X1 X0) \Leftrightarrow \\ (X1 \in X0))) \wedge ((v1\_xboole\_0 X0) \Rightarrow ((m1\_subset\_1 X1 X0) \Leftrightarrow (v1\_xboole\_0 \\ X1))) \end{aligned} \quad (3)$$

**Theorem 1**

$$\begin{aligned} \forall X0. (\neg v1\_xboole\_0 X0) \Rightarrow ((v1\_ordinal1 X0) \Rightarrow ((r2\_zf\_model \\ X0 k7\_zf\_model) \Leftrightarrow (\forall X1. \forall X2. ((X1 \in X0) \wedge (X2 \in X0)) \Rightarrow ( \\ k2\_tarski X1 X2 \in X0)))) \end{aligned}$$