

## l23\_zfmodel1

(TMLgcXFibHwebxoJntRANF7ekZR6DrdcCuF)

October 27, 2020

Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $v1\_ordinal1 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $r2\_zf\_model : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k6\_zf\_model : \iota$  be given. Assume the following.

$$\forall X0. (\neg v1\_xboole\_0 X0) \Rightarrow ((v1\_ordinal1 X0) \Rightarrow (r2\_zf\_model X0 k6\_zf\_model)) \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. (\neg v1\_xboole\_0 X0) \Rightarrow ((r2\_zf\_model X0 k6\_zf\_model) \Rightarrow \\ & (\forall X1. (m1\_subset\_1 X1 X0) \Rightarrow (\forall X2. (m1\_subset\_1 X2 X0) \Rightarrow \\ & ((\forall X3. (m1\_subset\_1 X3 X0) \Rightarrow ((X3 \in X1) \Leftrightarrow (X3 \in X2))) \Rightarrow (X1 = X2)))))) \end{aligned} \quad (2)$$

**Theorem 1**

$$\begin{aligned} & \forall X0. (\neg v1\_xboole\_0 X0) \Rightarrow ((v1\_ordinal1 X0) \Rightarrow (\forall X1. \\ & (m1\_subset\_1 X1 X0) \Rightarrow (\forall X2. (m1\_subset\_1 X2 X0) \Rightarrow ((\forall X3. \\ & (m1\_subset\_1 X3 X0) \Rightarrow ((X3 \in X1) \Leftrightarrow (X3 \in X2))) \Rightarrow (X1 = X2)))))) \end{aligned}$$