

t14\_zf\_model  
(TMMT3XUe4jxRBAuA4yPcLmfdR6XhHL5SJUa)

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Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zf\_lang : \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_zf\_lang : \iota \Rightarrow o$  be given. Let  $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_numbers : \iota$  be given. Let  $r1\_zf\_model : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k6\_zf\_lang : \iota \Rightarrow \iota$  be given. Let  $k5\_zf\_model : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $m1\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} \forall X0.(\neg v1\_xboole\_0 X0) \Rightarrow (\forall X1.((v1\_zf\_lang X1) \wedge ( \\ m2\_finseq\_1 X1 k5\_numbers)) \Rightarrow (\forall X2.((v1\_funct\_1 X2) \wedge ( \\ v1\_funct\_2 X2 k1\_zf\_lang X0) \wedge (m1\_subset\_1 X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 \\ k1\_zf\_lang X0)))) \Rightarrow ((\neg X2 \in k5\_zf\_model X1 X0) \Leftrightarrow (X2 \in k5\_zf\_model \\ (k6\_zf\_lang X1) X0)))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. (m2\_finseq\_1 X1 X0) \Leftrightarrow (m1\_finseq\_1 X1 X0) \tag{2}$$

Assume the following.

$$\forall X0. ((v1\_zf\_lang X0) \wedge (m1\_finseq\_1 X0 k5\_numbers)) \Rightarrow (v1\_zf\_lang \\ (k6\_zf\_lang X0)) \tag{3}$$

Assume the following.

$$\forall X0. (m1\_finseq\_1 X0 k5\_numbers) \Rightarrow (m2\_finseq\_1 (k6\_zf\_lang \\ X0) k5\_numbers) \tag{4}$$

Assume the following.

$$\begin{aligned} \forall X0.(\neg v1\_xboole\_0 X0) \Rightarrow (\forall X1.((v1\_funct\_1 X1) \wedge ( \\ (v1\_funct\_2 X1 k1\_zf\_lang X0) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 \\ k1\_zf\_lang X0)))) \Rightarrow (\forall X2.((v1\_zf\_lang X2) \wedge (m2\_finseq\_1 \\ X2 k5\_numbers)) \Rightarrow ((r1\_zf\_model X0 X1 X2) \Leftrightarrow (X1 \in k5\_zf\_model X2 X0)))) \end{aligned} \tag{5}$$

**Theorem 1**

$$\begin{aligned} \forall X0.(\neg v1\_xboole\_0 X0) \Rightarrow (\forall X1.((v1\_funct\_1 X1) \wedge ( \\ (v1\_funct\_2 X1 k1\_zf\_lang X0) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 \\ k1\_zf\_lang X0)))))) \Rightarrow (\forall X2.((v1\_zf\_lang X2) \wedge (m2\_finseq\_1 \\ X2 k5\_numbers)) \Rightarrow ((r1\_zf\_model X0 X1 X2) \Leftrightarrow (\neg r1\_zf\_model X0 X1 (k6\_zf\_lang \\ X2)))))) \end{aligned}$$