

t95\_zf\_lang1  
(TMW6VcnmGHD94vyKfvpryGfEaPAKd8hxuXC)

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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  $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zf\_lang : \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $r2\_zf\_model : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k14\_zf\_lang : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k8\_zf\_lang : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $m1\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} & \forall X0.((v1\_zf\_lang X0) \wedge (m2\_finseq\_1 X0 k5\_numbers)) \Rightarrow (\forall X1. \\ & (m2\_subset\_1 X1 k5\_numbers k1\_zf\_lang) \Rightarrow (\forall X2.(\neg v1\_xboole\_0 \\ & X2) \Rightarrow ((r2\_zf\_model X2 (k8\_zf\_lang X1 X0)) \Leftrightarrow (r2\_zf\_model X2 X0)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((\neg v1\_xboole\_0 X0) \wedge ((\neg v1\_xboole\_0 X1) \wedge \\ & (m1\_subset\_1 X1 (k1\_zfmisc\_1 X0)))) \Rightarrow (\forall X2. (m2\_subset\_1 \\ & X2 X0 X1) \Leftrightarrow (m1\_subset\_1 X2 X1)) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (m2\_finseq\_1 X1 X0) \Leftrightarrow (m1\_finseq\_1 X1 X0) \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((m1\_subset\_1 X0 k1\_zf\_lang) \wedge ((v1\_zf\_lang \\ & X1) \wedge (m1\_finseq\_1 X1 k5\_numbers))) \Rightarrow (v1\_zf\_lang (k8\_zf\_lang X0 \\ & X1)) \end{aligned} \quad (4)$$

Assume the following.

$$\neg v1\_xboole\_0 k1\_zf\_lang \quad (5)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((m1\_subset\_1 X0 k1\_zf\_lang) \wedge (m1\_finseq\_1 \\ & X1 k5\_numbers)) \Rightarrow (m2\_finseq\_1 (k8\_zf\_lang X0 X1) k5\_numbers) \end{aligned} \quad (6)$$

Assume the following.

$$m1\_subset\_1 \ k1\_zf\_lang \ (k1\_zfmisc\_1 \ k5\_numbers) \quad (7)$$

Assume the following.

$$\begin{aligned} \forall X0.(m2\_subset\_1 \ X0 \ k5\_numbers \ k1\_zf\_lang) \Rightarrow (\forall X1. \\ (m2\_subset\_1 \ X1 \ k5\_numbers \ k1\_zf\_lang) \Rightarrow (\forall X2.((v1\_zf\_lang \\ X2) \wedge (m2\_finseq\_1 \ X2 \ k5\_numbers)) \Rightarrow (k14\_zf\_lang \ X0 \ X1 \ X2 = k8\_zf\_lang \\ X0 \ (k8\_zf\_lang \ X1 \ X2)))) \end{aligned} \quad (8)$$

Assume the following.

$$\forall X0.(v1\_xboole\_0 \ X0) \Rightarrow (\forall X1.(m1\_subset\_1 \ X1 \ (k1\_zfmisc\_1 \ X0)) \Rightarrow (v1\_xboole\_0 \ X1)) \quad (9)$$

**Theorem 1**

$$\begin{aligned} \forall X0.((v1\_zf\_lang \ X0) \wedge (m2\_finseq\_1 \ X0 \ k5\_numbers)) \Rightarrow (\forall X1. \\ (m2\_subset\_1 \ X1 \ k5\_numbers \ k1\_zf\_lang) \Rightarrow (\forall X2.(m2\_subset\_1 \\ X2 \ k5\_numbers \ k1\_zf\_lang) \Rightarrow (\forall X3.(\neg v1\_xboole\_0 \ X3) \Rightarrow ((r2\_zf\_model \\ X3 \ X0) \Leftrightarrow (r2\_zf\_model \ X3 \ (k14\_zf\_lang \ X1 \ X2 \ X0)))))) \end{aligned}$$