

t69\_zf\_lang1  
(TMJKh5uFHALA3AB7hewnJyQxpU7s2sg32CT)

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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  $k2\_zf\_model : \iota \Rightarrow \iota$  be given. Let  $k15\_zf\_lang : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k7\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k14\_zf\_lang : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k13\_zf\_lang : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_tarski : \iota \Rightarrow \iota$  be given. Let  $k8\_zf\_lang : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  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.

$$\begin{aligned} & \forall X0.((v1\_zf\_lang X0) \wedge (m2\_finseq\_1 X0 k5\_numbers)) \Rightarrow (\forall X1. \\ & (m2\_subset\_1 X1 k5\_numbers k1\_zf\_lang) \Rightarrow (\forall X2.(m2\_subset\_1 \\ & X2 k5\_numbers k1\_zf\_lang) \Rightarrow (k2\_zf\_model (k14\_zf\_lang X1 X2 X0) = \\ & k7\_subset\_1 k1\_zf\_lang (k2\_zf\_model X0) (k2\_tarski X1 X2)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1\_zf\_lang X0) \wedge (m2\_finseq\_1 X0 k5\_numbers)) \Rightarrow (\forall X1. \\ & (m2\_subset\_1 X1 k5\_numbers k1\_zf\_lang) \Rightarrow (k2\_zf\_model (k13\_zf\_lang \\ & X1 X0) = k7\_subset\_1 k1\_zf\_lang (k2\_zf\_model X0) (k1\_tarski X1))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1\_zf\_lang X0) \wedge (m2\_finseq\_1 X0 k5\_numbers)) \Rightarrow (\forall X1. \\ & (m2\_subset\_1 X1 k5\_numbers k1\_zf\_lang) \Rightarrow (k2\_zf\_model (k8\_zf\_lang \\ & X1 X0) = k7\_subset\_1 k1\_zf\_lang (k2\_zf\_model X0) (k1\_tarski X1))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((\neg v1\_xboole\_0 X0) \wedge ((\neg v1\_xboole\_0 X1) \wedge \\ & (m1\_subset\_1 X1 (k1\_zfmisc\_1 X0)))) \Rightarrow (\forall X2.(m2\_subset\_1 \\ & X2 X0 X1) \Leftrightarrow (m1\_subset\_1 X2 X1)) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (m2\_finseq\_1 X1 X0) \Leftrightarrow (m1\_finseq\_1 X1 X0) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1 X0 k1\_zf\_lang)\wedge((v1\_zf\_lang X1)\wedge(m1\_finseq\_1 X1 k5\_numbers)))\Rightarrow(v1\_zf\_lang (k8\_zf\_lang X0 X1)) \quad (6)$$

Assume the following.

$$\neg v1\_xboole\_0 k1\_zf\_lang \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1 X0 k1\_zf\_lang)\wedge(m1\_finseq\_1 X1 k5\_numbers))\Rightarrow(m2\_finseq\_1 (k8\_zf\_lang X0 X1) k5\_numbers) \quad (8)$$

Assume the following.

$$m1\_subset\_1 k1\_zf\_lang (k1\_zfmisc\_1 k5\_numbers) \quad (9)$$

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1 X0 k1\_zf\_lang)\wedge((v1\_zf\_lang X1)\wedge(m1\_finseq\_1 X1 k5\_numbers)))\Rightarrow((v1\_zf\_lang (k13\_zf\_lang X0 X1))\wedge(m2\_finseq\_1 (k13\_zf\_lang X0 X1) k5\_numbers)) \quad (10)$$

Assume the following.

$$\forall X0.(m2\_subset\_1 X0 k5\_numbers k1\_zf\_lang)\Rightarrow(\forall X1.(m2\_subset\_1 X1 k5\_numbers k1\_zf\_lang)\Rightarrow(\forall X2.((v1\_zf\_lang X2)\wedge(m2\_finseq\_1 X2 k5\_numbers))\Rightarrow(k15\_zf\_lang X0 X1 X2 = k13\_zf\_lang X0 (k13\_zf\_lang X1 X2)))) \quad (11)$$

Assume the following.

$$\forall X0.(m2\_subset\_1 X0 k5\_numbers k1\_zf\_lang)\Rightarrow(\forall X1.(m2\_subset\_1 X1 k5\_numbers k1\_zf\_lang)\Rightarrow(\forall X2.((v1\_zf\_lang X2)\wedge(m2\_finseq\_1 X2 k5\_numbers))\Rightarrow(k14\_zf\_lang X0 X1 X2 = k8\_zf\_lang X0 (k8\_zf\_lang X1 X2)))) \quad (12)$$

Assume the following.

$$\forall X0.(v1\_xboole\_0 X0)\Rightarrow(\forall X1.(m1\_subset\_1 X1 (k1\_zfmisc\_1 X0))\Rightarrow(v1\_xboole\_0 X1)) \quad (13)$$

### Theorem 1

$$\forall X0.((v1\_zf\_lang X0)\wedge(m2\_finseq\_1 X0 k5\_numbers))\Rightarrow(\forall X1.(m2\_subset\_1 X1 k5\_numbers k1\_zf\_lang)\Rightarrow(\forall X2.(m2\_subset\_1 X2 k5\_numbers k1\_zf\_lang)\Rightarrow(k2\_zf\_model (k15\_zf\_lang X1 X2 X0) = k7\_subset\_1 k1\_zf\_lang (k2\_zf\_model X0) (k2\_tarSKI X1 X2))))$$