

## t79\_zf\_lang1

(TMau6R8ziRJ6DxdfL5psFEvFEDGXiNDFVMN)

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Let  $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_numbers : \iota$  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  $k4\_zf\_lang : \iota \Rightarrow \iota \Rightarrow \iota$  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  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r1\_zf\_model : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k3\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_zf\_lang : \iota \Rightarrow o$  be given. Let  $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} & \forall X0. (\neg v1\_xboole\_0 X0) \Rightarrow (\forall X1. ((v1\_funct\_1 X1) \wedge \\ & (v1\_funct\_2 X1 k1\_zf\_lang X0) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 \\ & k1\_zf\_lang X0)))) \Rightarrow (\forall X2. (m2\_subset\_1 X2 k5\_numbers k1\_zf\_lang) \Rightarrow \\ & (\forall X3. (m2\_subset\_1 X3 k5\_numbers k1\_zf\_lang) \Rightarrow ((r1\_zf\_model \\ & X0 X1 (k4\_zf\_lang X2 X3)) \Leftrightarrow (k3\_funct\_2 k1\_zf\_lang X0 X1 X2 = k3\_funct\_2 \\ & k1\_zf\_lang X0 X1 X3)))))) \end{aligned} \tag{1}$$

Assume the following.

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

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((m1\_subset\_1 X0 k1\_zf\_lang) \wedge (m1\_subset\_1 \\ & X1 k1\_zf\_lang)) \Rightarrow (v1\_zf\_lang (k4\_zf\_lang X0 X1)) \end{aligned} \tag{3}$$

Assume the following.

$$\neg v1\_xboole\_0 k1\_zf\_lang \tag{4}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((m1\_subset\_1 X0 k1\_zf\_lang) \wedge (m1\_subset\_1 \\ & X1 k1\_zf\_lang)) \Rightarrow (m2\_finseq\_1 (k4\_zf\_lang X0 X1) k5\_numbers) \end{aligned} \tag{5}$$

Assume the following.

$$m1\_subset\_1 \ k1\_zf\_lang \ (k1\_zfmisc\_1 \ k5\_numbers) \quad (6)$$

Assume the following.

$$\begin{aligned} \forall X0.(\neg v1\_xboole\_0 \ X0) \Rightarrow (\forall X1.((v1\_zf\_lang \ X1) \wedge ( \\ m2\_finseq\_1 \ X1 \ k5\_numbers)) \Rightarrow ((r2\_zf\_model \ X0 \ X1) \Leftrightarrow (\forall X2. \\ ((v1\_funct\_1 \ X2) \wedge ((v1\_funct\_2 \ X2 \ k1\_zf\_lang \ X0) \wedge (m1\_subset\_1 \\ X2 \ (k1\_zfmisc\_1 \ (k2\_zfmisc\_1 \ k1\_zf\_lang \ X0)))))) \Rightarrow (r1\_zf\_model \\ X0 \ X2 \ X1)))) \end{aligned} \quad (7)$$

Assume the following.

$$\forall X0.(v1\_xboole\_0 \ X0) \Rightarrow (\forall X1.(m1\_subset\_1 \ X1 \ (k1\_zfmisc\_1 \ X0)) \Rightarrow (v1\_xboole\_0 \ X1)) \quad (8)$$

**Theorem 1**

$$\begin{aligned} \forall X0.(m2\_subset\_1 \ X0 \ k5\_numbers \ k1\_zf\_lang) \Rightarrow (\forall X1. \\ (\neg v1\_xboole\_0 \ X1) \Rightarrow (r2\_zf\_model \ X1 \ (k4\_zf\_lang \ X0 \ X0))) \end{aligned}$$