

t186_zf_lang1
(TMav3Tq3y6DscwcZ22wpozqPzyqh4JUq1Sn)

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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 $k6_zf_lang1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_zf_lang1 : \iota \Rightarrow \iota$ 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.

$$\begin{aligned} & \forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\forall X1. \\ & (m2_subset_1 X1 k5_numbers k1_zf_lang) \Rightarrow (\forall X2.(m2_subset_1 \\ & X2 k5_numbers k1_zf_lang) \Rightarrow (\neg(X1 \neq X2) \wedge (X1 \in k4_zf_lang1 (k6_zf_lang1 \\ & X0 X1 X2)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\forall X1. \\ & (m2_subset_1 X1 k5_numbers k1_zf_lang) \Rightarrow (\forall X2.(m2_subset_1 \\ & X2 k5_numbers k1_zf_lang) \Rightarrow ((\neg X1 \in k4_zf_lang1 X0) \Rightarrow (k6_zf_lang1 \\ & X0 X1 X2 = X0)))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((\neg v1_xboole_0 X0) \wedge ((\neg v1_xboole_0 X1) \wedge \\ & (m1_subset_1 X1 (k1_zfmisc_1 X0)))) \Rightarrow (\forall X2.(m2_subset_1 \\ & X2 X0 X1) \Leftrightarrow (m1_subset_1 X2 X1)) \end{aligned} \tag{3}$$

Assume the following.

$$\forall X0. \forall X1. (m2_finseq_1 X1 X0) \Leftrightarrow (m1_finseq_1 X1 X0) \tag{4}$$

Assume the following.

$$\neg v1_xboole_0 k1_zf_lang \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(((v1_zf_lang\ X0)\wedge(m1_finseq_1\ X0\ k5_numbers))\wedge((m1_subset_1\ X1\ k1_zf_lang)\wedge(m1_subset_1\ X2\ k1_zf_lang)))\Rightarrow((v1_zf_lang\ (k6_zf_lang1\ X0\ X1\ X2))\wedge(m2_finseq_1\ (k6_zf_lang1\ X0\ X1\ X2)\ k5_numbers)) \quad (6)$$

Assume the following.

$$m1_subset_1\ k1_zf_lang\ (k1_zfmisc_1\ k5_numbers) \quad (7)$$

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

$$\forall X0.((v1_zf_lang\ X0)\wedge(m2_finseq_1\ X0\ k5_numbers))\Rightarrow(\forall X1.(m2_subset_1\ X1\ k5_numbers\ k1_zf_lang)\Rightarrow(\forall X2.(m2_subset_1\ X2\ k5_numbers\ k1_zf_lang)\Rightarrow(\forall X3.(m2_subset_1\ X3\ k5_numbers\ k1_zf_lang)\Rightarrow((X1\neq X2)\Rightarrow(k6_zf_lang1\ (k6_zf_lang1\ X0\ X1\ X2)\ X1\ X3 = k6_zf_lang1\ X0\ X1\ X2))))))$$