

t180_zf_lang1

(TMV8U7yi4AfRxKMotYgiPkNWEgEFWjnWdQ5)

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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 $v10_zf_lang : \iota \Rightarrow o$ be given. Let $k27_zf_lang : \iota \Rightarrow \iota$ be given. Let $k6_zf_lang1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k28_zf_lang : \iota \Rightarrow \iota$ be given. Let $k12_zf_lang : \iota \Rightarrow \iota \Rightarrow \iota$ 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.

$$\forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow ((v10_zf_lang X0) \Rightarrow (X0 = k12_zf_lang (k27_zf_lang X0) (k28_zf_lang X0))) \quad (1)$$

Assume the following.

$$\forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\forall X1. (m2_subset_1 X1 k5_numbers k1_zf_lang) \Rightarrow (\forall X2. (m2_subset_1 X2 k5_numbers k1_zf_lang) \Rightarrow ((v10_zf_lang X0) \Rightarrow (v10_zf_lang (k6_zf_lang1 X0 X1 X2)))))) \quad (2)$$

Assume the following.

$$\forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\forall X1. ((v1_zf_lang X1) \wedge (m2_finseq_1 X1 k5_numbers)) \Rightarrow (\forall X2. ((v1_zf_lang X2) \wedge (m2_finseq_1 X2 k5_numbers)) \Rightarrow (\forall X3. ((v1_zf_lang X3) \wedge (m2_finseq_1 X3 k5_numbers)) \Rightarrow (\forall X4. (m2_subset_1 X4 k5_numbers k1_zf_lang) \Rightarrow (\forall X5. (m2_subset_1 X5 k5_numbers k1_zf_lang) \Rightarrow ((k12_zf_lang X0 X1 = k6_zf_lang1 (k12_zf_lang X2 X3) X4 X5) \Leftrightarrow ((X0 = k6_zf_lang1 X2 X4 X5) \wedge (X1 = k6_zf_lang1 X3 X4 X5)))))))))) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. ((\neg v1_xboole_0 X0) \wedge ((\neg v1_xboole_0 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X0)))) \Rightarrow (\forall X2. (m2_subset_1 X2 X0 X1) \Leftrightarrow (m1_subset_1 X2 X1)) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.(m2_finseq_1 X1 X0)\Leftrightarrow(m1_finseq_1 X1 X0) \quad (5)$$

Assume the following.

$$\neg v1_xboole_0 k1_zf_lang \quad (6)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.\forall X2.(((v1_zf_lang X0)\wedge(m1_finseq_1 \\ X0 k5_numbers))\wedge((m1_subset_1 X1 k1_zf_lang)\wedge(m1_subset_1 X2 \\ k1_zf_lang)))\Rightarrow((v1_zf_lang (k6_zf_lang1 X0 X1 X2))\wedge(m2_finseq_1 \\ (k6_zf_lang1 X0 X1 X2) k5_numbers)) \end{aligned} \quad (7)$$

Assume the following.

$$\forall X0.((v1_zf_lang X0)\wedge(m1_finseq_1 X0 k5_numbers))\Rightarrow((v1_zf_lang (k28_zf_lang X0))\wedge(m2_finseq_1 (k28_zf_lang X0) k5_numbers)) \quad (8)$$

Assume the following.

$$\forall X0.((v1_zf_lang X0)\wedge(m1_finseq_1 X0 k5_numbers))\Rightarrow((v1_zf_lang (k27_zf_lang X0))\wedge(m2_finseq_1 (k27_zf_lang X0) k5_numbers)) \quad (9)$$

Assume the following.

$$m1_subset_1 k1_zf_lang (k1_zfmisc_1 k5_numbers) \quad (10)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0)\Rightarrow(\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 X0))\Rightarrow(v1_xboole_0 X1)) \quad (11)$$

Theorem 1

$$\begin{aligned} \forall X0.((v1_zf_lang X0)\wedge(m2_finseq_1 X0 k5_numbers))\Rightarrow(\forall X1. \\ (m2_subset_1 X1 k5_numbers k1_zf_lang)\Rightarrow(\forall X2.(m2_subset_1 \\ X2 k5_numbers k1_zf_lang)\Rightarrow((v10_zf_lang X0)\Rightarrow((k27_zf_lang (\\ k6_zf_lang1 X0 X1 X2) = k6_zf_lang1 (k27_zf_lang X0) X1 X2)\wedge(k28_zf_lang \\ (k6_zf_lang1 X0 X1 X2) = k6_zf_lang1 (k28_zf_lang X0) X1 X2)))))) \end{aligned}$$