

t1_zf_lang1
(TMSGpGuA66AH64Z6aSuP2bgf4gqhHoLsfuX)

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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 $k18_zf_lang : \iota \Rightarrow \iota$ be given. Let $k4_zf_lang : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k19_zf_lang : \iota \Rightarrow \iota$ be given. Let $v1_zf_lang : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2_zf_lang : \iota \Rightarrow o$ 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.

$$\forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow ((v2_zf_lang X0) \Rightarrow (X0 = k4_zf_lang (k18_zf_lang X0) (k19_zf_lang X0))) \quad (1)$$

Assume the following.

$$\forall X0.(m2_subset_1 X0 k5_numbers k1_zf_lang) \Rightarrow (\forall X1.(m2_subset_1 X1 k5_numbers k1_zf_lang) \Rightarrow (\forall X2.(m2_subset_1 X2 k5_numbers k1_zf_lang) \Rightarrow (\forall X3.(m2_subset_1 X3 k5_numbers k1_zf_lang) \Rightarrow ((k4_zf_lang X0 X1 = k4_zf_lang X2 X3) \Rightarrow ((X0 = X2) \wedge (X1 = X3)))))) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1_xboole_0 X0) \wedge ((\neg v1_xboole_0 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X0)))) \Rightarrow (\forall X2.(m2_subset_1 X2 X0 X1) \Leftrightarrow (m1_subset_1 X2 X1)) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.(m2_finseq_1 X1 X0) \Leftrightarrow (m1_finseq_1 X1 X0) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.((m1_subset_1 X0 k1_zf_lang) \wedge (m1_subset_1 X1 k1_zf_lang)) \Rightarrow (v1_zf_lang (k4_zf_lang X0 X1)) \quad (5)$$

Assume the following.

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

Assume the following.

$$\forall X0.\forall X1.((m1_subset_1 \ X0 \ k1_zf_lang)\wedge(m1_subset_1 \ X1 \ k1_zf_lang))\Rightarrow(m2_finseq_1 \ (k4_zf_lang \ X0 \ X1) \ k5_numbers) \quad (7)$$

Assume the following.

$$m1_subset_1 \ k1_zf_lang \ (k1_zfmisc_1 \ k5_numbers) \quad (8)$$

Assume the following.

$$\forall X0.((v1_zf_lang \ X0)\wedge(m1_finseq_1 \ X0 \ k5_numbers))\Rightarrow(m2_subset_1 \ (k19_zf_lang \ X0) \ k5_numbers \ k1_zf_lang) \quad (9)$$

Assume the following.

$$\forall X0.((v1_zf_lang \ X0)\wedge(m1_finseq_1 \ X0 \ k5_numbers))\Rightarrow(m2_subset_1 \ (k18_zf_lang \ X0) \ k5_numbers \ k1_zf_lang) \quad (10)$$

Assume the following.

$$\forall X0.((v1_zf_lang \ X0)\wedge(m2_finseq_1 \ X0 \ k5_numbers))\Rightarrow(((v2_zf_lang \ X0)\Leftrightarrow(\exists X1.(m2_subset_1 \ X1 \ k5_numbers \ k1_zf_lang)\wedge(\exists X2.(m2_subset_1 \ X2 \ k5_numbers \ k1_zf_lang)\wedge(X0 = k4_zf_lang \ X1 \ X2)))) \quad (11)$$

Assume the following.

$$\forall X0.(v1_xboole_0 \ X0)\Rightarrow(\forall X1.(m1_subset_1 \ X1 \ (k1_zfmisc_1 \ X0))\Rightarrow(v1_xboole_0 \ X1)) \quad (12)$$

Theorem 1

$$\forall X0.(m2_subset_1 \ X0 \ k5_numbers \ k1_zf_lang)\Rightarrow(\forall X1.(m2_subset_1 \ X1 \ k5_numbers \ k1_zf_lang)\Rightarrow((k18_zf_lang \ (k4_zf_lang \ X0 \ X1) = X0)\wedge(k19_zf_lang \ (k4_zf_lang \ X0 \ X1) = X1)))$$