

t80_zf_lang (TMWAyd- djCwe2q23SyD2S93j3uZQ6VvWvnQd)

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Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $k1_zf_lang : \iota$ be given. Let $k29_zf_lang : \iota \Rightarrow \iota$ be given. Let $k4_zf_lang : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $v1_zf_lang : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r2_zf_lang : \iota \Rightarrow \iota \Rightarrow o$ 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. Assume the following.

$$\begin{aligned} & \forall X0.(m2_subset_1 X0 k5_numbers k1_zf_lang) \Rightarrow (\forall X1. \\ & (m2_subset_1 X1 k5_numbers k1_zf_lang) \Rightarrow (\forall X2.((v1_zf_lang \\ & X2) \wedge (m2_finseq_1 X2 k5_numbers)) \Rightarrow ((r2_zf_lang X2 (k4_zf_lang \\ & X0 X1)) \Leftrightarrow (X2 = k4_zf_lang X0 X1)))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (r2_zf_lang X0 X0) \quad (2)$$

Assume the following.

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

Assume the following.

$$\forall X0.\forall X1.((m1_subset_1 X0 k1_zf_lang) \wedge (m1_subset_1 X1 k1_zf_lang)) \Rightarrow (v1_zf_lang (k4_zf_lang X0 X1)) \quad (4)$$

Assume the following.

$$\neg v1_xboole_0 k1_zf_lang \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.((m1_subset_1 X0 k1_zf_lang) \wedge (m1_subset_1 X1 k1_zf_lang)) \Rightarrow (m2_finseq_1 (k4_zf_lang X0 X1) k5_numbers) \quad (6)$$

Assume the following.

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

Assume the following.

$$\begin{aligned} \forall X0.((v1_zf_lang \ X0) \wedge (m2_finseq_1 \ X0 \ k5_numbers)) \Rightarrow (\forall X1. \\ (X1 = k29_zf_lang \ X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Leftrightarrow (\exists X3.((v1_zf_lang \\ X3) \wedge (m2_finseq_1 \ X3 \ k5_numbers)) \wedge ((X3 = X2) \wedge (r2_zf_lang \ X3 \ X0)))))) \end{aligned} \quad (8)$$

Assume the following.

$$\forall X0. \forall X1.(X1 = k1_tarski \ X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Leftrightarrow (X2 = X0)) \quad (9)$$

Assume the following.

$$\forall X0.(v1_xboole_0 \ X0) \Rightarrow (\forall X1.(m1_subset_1 \ X1 \ (k1_zfmisc_1 \ X0)) \Rightarrow (v1_xboole_0 \ X1)) \quad (10)$$

Theorem 1

$$\begin{aligned} \forall X0.(m2_subset_1 \ X0 \ k5_numbers \ k1_zf_lang) \Rightarrow (\forall X1. \\ (m2_subset_1 \ X1 \ k5_numbers \ k1_zf_lang) \Rightarrow (k29_zf_lang \ (k4_zf_lang \\ X0 \ X1) = k1_tarski \ (k4_zf_lang \ X0 \ X1))) \end{aligned}$$