

t88_zf_lang1

(TMcQKfq7iGnfmLutTExxxxQYjDeBX481biM)

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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 $v1_xboole_0 : \iota \Rightarrow o$ 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 $k1_zf_lang : \iota$ 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 $v6_zf_lang : \iota \Rightarrow o$ be given. Let $r1_zf_model : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_zf_lang1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k23_zf_lang : \iota \Rightarrow \iota$ be given. Let $k24_zf_lang : \iota \Rightarrow \iota$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k8_zf_lang : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\forall X1. \\ & (m2_subset_1 X1 k5_numbers k1_zf_lang) \Rightarrow ((k23_zf_lang (k8_zf_lang \\ & X1 X0) = X1) \wedge (k24_zf_lang (k8_zf_lang X1 X0) = X0))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\forall X1. \\ & (m2_subset_1 X1 k5_numbers k1_zf_lang) \Rightarrow (\forall X2.(\neg v1_xboole_0 \\ & X2) \Rightarrow (\forall X3.((v1_funct_1 X3) \wedge ((v1_funct_2 X3 k1_zf_lang \\ & X2) \wedge (m1_subset_1 X3 (k1_zfmisc_1 (k2_zfmisc_1 k1_zf_lang X2)))))) \Rightarrow \\ & ((r1_zf_model X2 X3 (k8_zf_lang X1 X0)) \Leftrightarrow (\forall X4.(m1_subset_1 \\ & X4 X2) \Rightarrow (r1_zf_model X2 (k2_zf_lang1 X2 X3 X1 X4) X0)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow ((v6_zf_lang X0) \Rightarrow (X0 = k8_zf_lang (k23_zf_lang X0) (k24_zf_lang X0))) \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow ((\\ & v6_zf_lang X0) \Leftrightarrow (\exists X1.(m2_subset_1 X1 k5_numbers k1_zf_lang) \wedge \\ & (\exists X2.((v1_zf_lang X2) \wedge (m2_finseq_1 X2 k5_numbers)) \wedge (\\ & X0 = k8_zf_lang X1 X2)))) \end{aligned} \quad (4)$$

Theorem 1

$$\begin{aligned} & \forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\forall X1. \\ & \quad (\neg v1_xboole_0 X1) \Rightarrow (\forall X2.((v1_funct_1 X2) \wedge ((v1_funct_2 \\ & X2 k1_zf_lang X1) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 k1_zf_lang \\ & X1)))))) \Rightarrow ((v6_zf_lang X0) \Rightarrow ((r1_zf_model X1 X2 X0) \Leftrightarrow (\forall X3. \\ & (m1_subset_1 X3 X1) \Rightarrow (r1_zf_model X1 (k2_zf_lang1 X1 X2 (k23_zf_lang \\ & X0) X3) (k24_zf_lang X0))))))) \end{aligned}$$