

t90_zf_lang1 (TMLswhehTMyNWdZBZp- winYFrakUyBXEuiNk)

October 27, 2020

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 $k1_zf_misc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zf_misc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v9_zf_lang : \iota \Rightarrow o$ be given. Let $r1_zf_model : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k25_zf_lang : \iota \Rightarrow \iota$ be given. Let $k26_zf_lang : \iota \Rightarrow \iota$ be given. Let $k11_zf_lang : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\forall X1. \\ & ((v1_zf_lang X1) \wedge (m2_finseq_1 X1 k5_numbers)) \Rightarrow ((k25_zf_lang \\ & (k11_zf_lang X0 X1) = X0) \wedge (k26_zf_lang (k11_zf_lang X0 X1) = X1))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow ((v9_zf_lang X0) \Rightarrow (X0 = k11_zf_lang (k25_zf_lang X0) (k26_zf_lang X0))) \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0.(\neg v1_xboole_0 X0) \Rightarrow (\forall X1.((v1_funct_1 X1) \wedge \\ & (v1_funct_2 X1 k1_zf_lang X0) \wedge (m1_subset_1 X1 (k1_zf_misc_1 (k2_zf_misc_1 \\ & k1_zf_lang X0)))) \Rightarrow (\forall X2.((v1_zf_lang X2) \wedge (m2_finseq_1 \\ & X2 k5_numbers)) \Rightarrow (\forall X3.((v1_zf_lang X3) \wedge (m2_finseq_1 X3 \\ & k5_numbers)) \Rightarrow ((r1_zf_model X0 X1 (k11_zf_lang X2 X3)) \Leftrightarrow ((r1_zf_model \\ & X0 X1 X2) \Rightarrow (r1_zf_model X0 X1 X3)))))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow ((\\ & v9_zf_lang X0) \Leftrightarrow (\exists X1.((v1_zf_lang X1) \wedge (m2_finseq_1 X1 \\ & k5_numbers)) \wedge (\exists X2.((v1_zf_lang X2) \wedge (m2_finseq_1 X2 k5_numbers)) \wedge \\ & (X0 = k11_zf_lang X1 X2)))) \end{aligned} \quad (4)$$

Theorem 1

$$\begin{aligned} & \forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\forall X1. \\ & \quad (\neg v1_xboole_0 X1) \Rightarrow (\forall X2.((v1_funct_1 X2) \wedge ((v1_funct_2 \\ X2 k1_zf_lang X1) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 k1_zf_lang \\ X1)))))) \Rightarrow ((v9_zf_lang X0) \Rightarrow ((r1_zf_model X1 X2 X0) \Leftrightarrow ((r1_zf_model \\ X1 X2 (k25_zf_lang X0)) \Rightarrow (r1_zf_model X1 X2 (k26_zf_lang X0))))))) \end{aligned}$$