

t11_zf_model
(TMR1oG6aKFjJVC3PKjoHsCMKgHVmqMhzXUE)

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 $v6_zf_lang : \iota \Rightarrow o$ 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 $k5_zf_model : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k3_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k23_zf_lang : \iota \Rightarrow \iota$ be given. Let $k8_zf_lang : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned}
& \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. (m2_subset_1 X1 k5_numbers \\
& k1_zf_lang) \Rightarrow (\forall X2. ((v1_zf_lang X2) \wedge (m2_finseq_1 X2 k5_numbers)) \Rightarrow \\
& (\forall X3. ((v1_funct_1 X3) \wedge ((v1_funct_2 X3 k1_zf_lang X0) \wedge \\
& (m1_subset_1 X3 (k1_zfmisc_1 (k2_zfmisc_1 k1_zf_lang X0)))))) \Rightarrow \\
& (((X3 \in k5_zf_model X2 X0) \wedge (\forall X4. ((v1_funct_1 X4) \wedge ((v1_funct_2 \\
& X4 k1_zf_lang X0) \wedge (m1_subset_1 X4 (k1_zfmisc_1 (k2_zfmisc_1 k1_zf_lang \\
& X0)))))) \Rightarrow ((\forall X5. (m2_subset_1 X5 k5_numbers k1_zf_lang) \Rightarrow \\
& ((k3_funct_2 k1_zf_lang X0 X4 X5 \neq k3_funct_2 k1_zf_lang X0 X3 X5) \Rightarrow \\
& (X1 = X5))) \Rightarrow (X4 \in k5_zf_model X2 X0)))) \Leftrightarrow (X3 \in k5_zf_model (k8_zf_lang \\
& X1 X2) X0))))))
\end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. ((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow ((v6_zf_lang X0) \Rightarrow (X0 = k8_zf_lang (k23_zf_lang X0) (k24_zf_lang X0))) \tag{2}$$

Assume the following.

$$\forall X0. \forall X1. (m2_finseq_1 X1 X0) \Leftrightarrow (m1_finseq_1 X1 X0) \tag{3}$$

Assume the following.

$$\forall X0. ((v1_zf_lang X0) \wedge (m1_finseq_1 X0 k5_numbers)) \Rightarrow ((v1_zf_lang (k24_zf_lang X0)) \wedge (m2_finseq_1 (k24_zf_lang X0) k5_numbers)) \tag{4}$$

Assume the following.

$$\forall X0.((v1_zf_lang X0) \wedge (m1_finseq_1 X0 k5_numbers)) \Rightarrow (m2_subset_1 (k23_zf_lang X0) k5_numbers k1_zf_lang) \quad (5)$$

Theorem 1

$$\begin{aligned} & \forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\forall X1. \\ & (\neg v1_xboole_0 X1) \Rightarrow ((v6_zf_lang X0) \Rightarrow (\forall X2.((v1_funct_1 \\ & X2) \wedge ((v1_funct_2 X2 k1_zf_lang X1) \wedge (m1_subset_1 X2 (k1_zfmisc_1 \\ & (k2_zfmisc_1 k1_zf_lang X1)))))) \Rightarrow (((X2 \in k5_zf_model (k24_zf_lang \\ & X0) X1) \wedge (\forall X3.((v1_funct_1 X3) \wedge ((v1_funct_2 X3 k1_zf_lang \\ & X1) \wedge (m1_subset_1 X3 (k1_zfmisc_1 (k2_zfmisc_1 k1_zf_lang X1)))))) \Rightarrow \\ & ((\forall X4.(m2_subset_1 X4 k5_numbers k1_zf_lang) \Rightarrow ((k3_funct_2 \\ & k1_zf_lang X1 X3 X4 \neq k3_funct_2 k1_zf_lang X1 X2 X4) \Rightarrow (k23_zf_lang \\ & X0 = X4))) \Rightarrow (X3 \in k5_zf_model (k24_zf_lang X0) X1))) \Leftrightarrow (X2 \in k5_zf_model \\ & X0 X1)))))) \end{aligned}$$