

t23_zf_model
(TMdSvr3ksKE8AfgnPr7AB1xFx6jKkyJDsyQ)

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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 $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zf_lang : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $r2_zf_model : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k8_zf_lang : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_zf_model : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(\neg v1_xboole_0 X0) \Rightarrow (\forall X1.((v1_funct_1 X1) \wedge \\ & (v1_funct_2 X1 k1_zf_lang X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 \\ & k1_zf_lang X0)))) \Rightarrow (\forall X2.((v1_zf_lang X2) \wedge (m2_finseq_1 \\ & X2 k5_numbers)) \Rightarrow (\forall X3.(m2_subset_1 X3 k5_numbers k1_zf_lang) \Rightarrow \\ & ((r1_zf_model X0 X1 (k8_zf_lang X3 X2)) \Leftrightarrow (\forall X4.((v1_funct_1 \\ & X4) \wedge ((v1_funct_2 X4 k1_zf_lang X0) \wedge (m1_subset_1 X4 (k1_zfmisc_1 \\ & (k2_zfmisc_1 k1_zf_lang X0)))))) \Rightarrow ((\forall X5.(m2_subset_1 X5 \\ & k5_numbers k1_zf_lang) \Rightarrow ((k3_funct_2 k1_zf_lang X0 X4 X5 \neq k3_funct_2 \\ & k1_zf_lang X0 X1 X5) \Rightarrow (X3 = X5))) \Rightarrow (r1_zf_model X0 X4 X2)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((\neg v1_xboole_0 X0) \wedge ((\neg v1_xboole_0 X1) \wedge \\ & (m1_subset_1 X1 (k1_zfmisc_1 X0)))) \Rightarrow (\forall X2.(m2_subset_1 \\ & X2 X0 X1) \Leftrightarrow (m1_subset_1 X2 X1)) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (m2_finseq_1 X1 X0) \Leftrightarrow (m1_finseq_1 X1 X0) \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((m1_subset_1 X0 k1_zf_lang) \wedge ((v1_zf_lang \\ & X1) \wedge (m1_finseq_1 X1 k5_numbers))) \Rightarrow (v1_zf_lang (k8_zf_lang X0 \\ & X1)) \end{aligned} \quad (4)$$

Assume the following.

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

Assume the following.

$$\forall X0.\forall X1.((m1_subset_1 \ X0 \ k1_zf_lang)\wedge(m1_finseq_1 \ X1 \ k5_numbers))\Rightarrow(m2_finseq_1 \ (k8_zf_lang \ X0 \ X1) \ k5_numbers) \quad (6)$$

Assume the following.

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

Assume the following.

$$\begin{aligned} \forall X0.(\neg v1_xboole_0 \ X0)\Rightarrow(\forall X1.((v1_zf_lang \ X1)\wedge \\ m2_finseq_1 \ X1 \ k5_numbers))\Rightarrow((r2_zf_model \ X0 \ X1)\Leftrightarrow(\forall X2. \\ ((v1_funct_1 \ X2)\wedge((v1_funct_2 \ X2 \ k1_zf_lang \ X0)\wedge(m1_subset_1 \\ X2 \ (k1_zfmisc_1 \ (k2_zfmisc_1 \ k1_zf_lang \ X0))))))\Rightarrow(r1_zf_model \\ X0 \ X2 \ X1))) \quad (8) \end{aligned}$$

Assume the following.

$$\forall X0.(v1_xboole_0 \ X0)\Rightarrow(\forall X1.(m1_subset_1 \ X1 \ (k1_zfmisc_1 \ X0))\Rightarrow(v1_xboole_0 \ X1)) \quad (9)$$

Theorem 1

$$\begin{aligned} \forall X0.((v1_zf_lang \ X0)\wedge(m2_finseq_1 \ X0 \ k5_numbers))\Rightarrow(\forall X1. \\ (m2_subset_1 \ X1 \ k5_numbers \ k1_zf_lang)\Rightarrow(\forall X2.(\neg v1_xboole_0 \\ X2)\Rightarrow((r2_zf_model \ X2 \ (k8_zf_lang \ X1 \ X0))\Leftrightarrow(r2_zf_model \ X2 \ X0)))) \end{aligned}$$