

t1_zf_model
(TMc1ZK4A8nv5XfAn7228t42ZJ86e6nKEUwD)

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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 $v2_zf_lang : \iota \Rightarrow o$ be given. Let $k2_zf_model : \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k18_zf_lang : \iota \Rightarrow \iota$ be given. Let $k19_zf_lang : \iota \Rightarrow \iota$ be given. Let $v3_zf_lang : \iota \Rightarrow o$ be given. Let $v4_zf_lang : \iota \Rightarrow o$ be given. Let $k20_zf_lang : \iota \Rightarrow \iota$ be given. Let $v5_zf_lang : \iota \Rightarrow o$ be given. Let $k4_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_zf_lang : \iota$ be given. Let $k21_zf_lang : \iota \Rightarrow \iota$ be given. Let $k22_zf_lang : \iota \Rightarrow \iota$ be given. Let $v6_zf_lang : \iota \Rightarrow o$ be given. Let $k7_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k24_zf_lang : \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k23_zf_lang : \iota \Rightarrow \iota$ be given. Let $k3_tarski : \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k4_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $k1_zf_model : \iota \Rightarrow \iota$ be given. Let $r1_xreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_5 : \iota$ be given. Assume the following.

$$\forall X0.\forall X1.k3_tarski (k2_tarski X0 X1) = k2_xboole_0 X0 X1 \quad (1)$$

Assume the following.

$$\forall X0.k3_tarski (k1_tarski X0) = X0 \quad (2)$$

Assume the following.

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

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1_subset_1 X1 (k1_zfmisc_1 X0)) \Rightarrow (k7_subset_1 X0 X1 X2 = k4_xboole_0 X1 X2) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.k6_subset_1 X0 X1 = k4_xboole_0 X0 X1 \quad (5)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((m1_subset_1 X1 (k1_zfmisc_1 X0))\wedge(m1_subset_1 X2 (k1_zfmisc_1 X0)))\Rightarrow(k4_subset_1 X0 X1 X2 = k2_xboole_0 X1 X2) \quad (7)$$

Assume the following.

$$\forall X0.((v1_zf_lang X0)\wedge(m1_finseq_1 X0 k5_numbers))\Rightarrow(k2_zf_model X0 = k1_zf_model X0) \quad (8)$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_zf_lang X0)\wedge(m2_finseq_1 X0 k5_numbers))\Rightarrow((\\ (v2_zf_lang X0)\Rightarrow(k1_zf_model X0 = k2_tarski (k18_zf_lang X0) (\\ k19_zf_lang X0)))\wedge(((v3_zf_lang X0)\Rightarrow(k1_zf_model X0 = k2_tarski \\ (k18_zf_lang X0) (k19_zf_lang X0)))\wedge(((v4_zf_lang X0)\Rightarrow(k1_zf_model \\ X0 = k1_zf_model (k20_zf_lang X0)))\wedge(((v5_zf_lang X0)\Rightarrow(\forall X1. \\ \forall X2.((X1 = k1_zf_model (k21_zf_lang X0))\wedge(X2 = k1_zf_model \\ (k22_zf_lang X0)))\Rightarrow(k1_zf_model X0 = k3_tarski (k2_tarski X1 X2))))\wedge \\ ((v6_zf_lang X0)\Rightarrow(k1_zf_model X0 = k6_subset_1 (k3_tarski (k1_tarski \\ (k1_zf_model (k24_zf_lang X0)))) (k1_tarski (k23_zf_lang X0))))))))) \quad (9) \end{aligned}$$

Assume the following.

$$\forall X0.((v1_zf_lang X0)\wedge(m1_finseq_1 X0 k5_numbers))\Rightarrow(m1_subset_1 (k2_zf_model X0) (k1_zfmisc_1 k1_zf_lang)) \quad (10)$$

Assume the following.

$$\forall X0.((v1_zf_lang X0)\wedge(m1_finseq_1 X0 k5_numbers))\Rightarrow((v1_zf_lang (k24_zf_lang X0))\wedge(m2_finseq_1 (k24_zf_lang X0) k5_numbers)) \quad (11)$$

Assume the following.

$$\forall X0.((v1_zf_lang X0)\wedge(m1_finseq_1 X0 k5_numbers))\Rightarrow((v1_zf_lang (k22_zf_lang X0))\wedge(m2_finseq_1 (k22_zf_lang X0) k5_numbers)) \quad (12)$$

Assume the following.

$$\forall X0.((v1_zf_lang X0)\wedge(m1_finseq_1 X0 k5_numbers))\Rightarrow((v1_zf_lang (k21_zf_lang X0))\wedge(m2_finseq_1 (k21_zf_lang X0) k5_numbers)) \quad (13)$$

Assume the following.

$$\forall X0.((v1_zf_lang X0)\wedge(m1_finseq_1 X0 k5_numbers))\Rightarrow((v1_zf_lang (k20_zf_lang X0))\wedge(m2_finseq_1 (k20_zf_lang X0) k5_numbers)) \quad (14)$$

Assume the following.

$$\begin{aligned}
k1_zf_lang = ReplSep (toset (\lambda X0 : \iota.m1_subset_1 X0 k5_numbers)) \\
(\lambda X0 : \iota.r1_xxreal_0 np_5 X0) (\lambda X0 : \iota.X0)
\end{aligned} \tag{15}$$

Theorem 1

$$\begin{aligned}
&\forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow ((\\
&\quad (v2_zf_lang X0) \Rightarrow (k2_zf_model X0 = k2_tarski (k18_zf_lang X0) (\\
&\quad k19_zf_lang X0))) \wedge ((v3_zf_lang X0) \Rightarrow (k2_zf_model X0 = k2_tarski \\
&\quad (k18_zf_lang X0) (k19_zf_lang X0))) \wedge ((v4_zf_lang X0) \Rightarrow (k2_zf_model \\
&\quad X0 = k2_zf_model (k20_zf_lang X0))) \wedge ((v5_zf_lang X0) \Rightarrow (k2_zf_model \\
&\quad X0 = k4_subset_1 k1_zf_lang (k2_zf_model (k21_zf_lang X0)) (k2_zf_model \\
&\quad (k22_zf_lang X0)))) \wedge ((v6_zf_lang X0) \Rightarrow (k2_zf_model X0 = k7_subset_1 \\
&\quad k1_zf_lang (k2_zf_model (k24_zf_lang X0)) (k1_tarski (k23_zf_lang \\
&\quad X0))))))
\end{aligned}$$