

l12_zfmodell1

(TMPHsvieSDw1Tu2XifxnAJnbsHvQZq7kmEE)

October 27, 2020

Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $k1_zf_lang : \iota$ be given. Let $v1_zf_lang : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r2_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k24_zf_lang : \iota \Rightarrow \iota$ be given. Let $k8_zf_lang : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k23_zf_lang : \iota \Rightarrow \iota$ be given. Let $v2_zf_lang : \iota \Rightarrow o$ be given. Let $k4_zf_lang : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v3_zf_lang : \iota \Rightarrow o$ be given. Let $k5_zf_lang : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v4_zf_lang : \iota \Rightarrow o$ be given. Let $k6_zf_lang : \iota \Rightarrow \iota$ be given. Let $v5_zf_lang : \iota \Rightarrow o$ be given. Let $k7_zf_lang : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v6_zf_lang : \iota \Rightarrow o$ 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 $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let

$v1_finseq_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned}
& \forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow ((\\
& \neg(v2_zf_lang X0) \wedge (\forall X1.(m2_subset_1 X1 k5_numbers k1_zf_lang) \Rightarrow \\
& (\forall X2.(m2_subset_1 X2 k5_numbers k1_zf_lang) \Rightarrow (X0 \neq k4_zf_lang \\
& X1 X2)))) \wedge (((\exists X1.(m2_subset_1 X1 k5_numbers k1_zf_lang) \wedge \\
& (\exists X2.(m2_subset_1 X2 k5_numbers k1_zf_lang) \wedge (X0 = k4_zf_lang \\
& X1 X2))) \Rightarrow (v2_zf_lang X0)) \wedge ((\neg(v3_zf_lang X0) \wedge (\forall X1.(m2_subset_1 \\
& X1 k5_numbers k1_zf_lang) \Rightarrow (\forall X2.(m2_subset_1 X2 k5_numbers \\
& k1_zf_lang) \Rightarrow (X0 \neq k5_zf_lang X1 X2)))) \wedge (((\exists X1.(m2_subset_1 \\
& X1 k5_numbers k1_zf_lang) \wedge (\exists X2.(m2_subset_1 X2 k5_numbers \\
& k1_zf_lang) \wedge (X0 = k5_zf_lang X1 X2))) \Rightarrow (v3_zf_lang X0)) \wedge ((\neg(v4_zf_lang \\
& X0) \wedge (\forall X1.((v1_zf_lang X1) \wedge (m2_finseq_1 X1 k5_numbers)) \Rightarrow \\
& (X0 \neq k6_zf_lang X1))) \wedge (((\exists X1.((v1_zf_lang X1) \wedge (m2_finseq_1 \\
& X1 k5_numbers)) \wedge (X0 = k6_zf_lang X1)) \Rightarrow (v4_zf_lang X0)) \wedge ((\neg(v5_zf_lang \\
& X0) \wedge (\forall X1.((v1_zf_lang X1) \wedge (m2_finseq_1 X1 k5_numbers)) \Rightarrow \\
& (\forall X2.((v1_zf_lang X2) \wedge (m2_finseq_1 X2 k5_numbers)) \Rightarrow (\\
& X0 \neq k7_zf_lang X1 X2)))) \wedge (((\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 = k7_zf_lang X1 X2))) \Rightarrow (v5_zf_lang X0)) \wedge ((\neg(\\
& v6_zf_lang X0) \wedge (\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 (\\
& X0 \neq k8_zf_lang X1 X2)))) \wedge (((\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))) \Rightarrow (v6_zf_lang X0)))))))))
\end{aligned} \tag{1}$$

Assume the following.

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

Assume the following.

$$\begin{aligned}
& \forall X0.(m2_finseq_1 X0 k5_numbers) \Rightarrow (\forall X1.(m2_finseq_1 \\
& X1 k5_numbers) \Rightarrow (\forall X2.(m2_subset_1 X2 k5_numbers k1_zf_lang) \Rightarrow \\
& (\forall X3.(m2_subset_1 X3 k5_numbers k1_zf_lang) \Rightarrow ((k8_zf_lang \\
& X2 X0 = k8_zf_lang X3 X1) \Rightarrow ((X2 = X3) \wedge (X0 = X1))))))
\end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned}
& \forall X0.\forall X1.\forall X2.\forall X3.((m1_subset_1 X2 \\
& (k1_zfmisc_1 (k2_zfmisc_1 X0 X1))) \wedge (m1_subset_1 X3 (k1_zfmisc_1 \\
& (k2_zfmisc_1 X0 X1)))) \Rightarrow (r2_relset_1 X0 X1 X2 X2)
\end{aligned} \tag{4}$$

Assume the following.

$$\begin{aligned}
& \forall X0.\forall X1.((\neg v1_xboole_0 X0) \wedge ((\neg v1_xboole_0 X1) \wedge \\
& (m1_subset_1 X1 (k1_zfmisc_1 X0)))) \Rightarrow (\forall X2.(m2_subset_1 \\
& X2 X0 X1) \Leftrightarrow (m1_subset_1 X2 X1))
\end{aligned} \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.(m2_finseq_1 X1 X0)\Leftrightarrow(m1_finseq_1 X1 X0) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.((m1_subset_1 X0 k1_zf_lang)\wedge((v1_zf_lang X1)\wedge(m1_finseq_1 X1 k5_numbers)))\Rightarrow(v1_zf_lang (k8_zf_lang X0 X1)) \quad (7)$$

Assume the following.

$$\neg v1_xboole_0 k1_zf_lang \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.(m2_finseq_1 X1 X0)\Rightarrow((v1_funct_1 X1)\wedge((v1_finseq_1 X1)\wedge(m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers X0)))))) \quad (9)$$

Assume the following.

$$\forall X0.\forall X1.((m1_subset_1 X0 k1_zf_lang)\wedge(m1_finseq_1 X1 k5_numbers))\Rightarrow(m2_finseq_1 (k8_zf_lang X0 X1) k5_numbers) \quad (10)$$

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.

$$\forall X0.((v1_zf_lang X0)\wedge(m1_finseq_1 X0 k5_numbers))\Rightarrow(m2_subset_1 (k23_zf_lang X0) k5_numbers k1_zf_lang) \quad (12)$$

Assume the following.

$$m1_subset_1 k1_zf_lang (k1_zfmisc_1 k5_numbers) \quad (13)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0)\Rightarrow(\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 X0))\Rightarrow(v1_xboole_0 X1)) \quad (14)$$

Theorem 1

$$\forall X0.(m2_subset_1 X0 k5_numbers k1_zf_lang)\Rightarrow(\forall X1.((v1_zf_lang X1)\wedge(m2_finseq_1 X1 k5_numbers))\Rightarrow((r2_relset_1 k5_numbers k5_numbers (k24_zf_lang (k8_zf_lang X0 X1)) X1)\wedge(k23_zf_lang (k8_zf_lang X0 X1) = X0)))$$