

t101_zf_lang1

(TMd1cq37mHW9EyKs7XmbNsLT8gDoWgFWHCQ)

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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 $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $r2_zf_model : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k11_zf_lang : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k1_zf_lang : \iota$ 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 $r1_zf_model : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. ((v1_funct_1 X1) \wedge \\ & (v1_funct_2 X1 k1_zf_lang X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 \\ & k1_zf_lang X0)))) \Rightarrow (\forall X2. ((v1_zf_lang X2) \wedge (m2_finseq_1 \\ & X2 k5_numbers)) \Rightarrow (\forall X3. ((v1_zf_lang X3) \wedge (m2_finseq_1 X3 \\ & k5_numbers)) \Rightarrow ((r1_zf_model X0 X1 (k11_zf_lang X2 X3)) \Leftrightarrow ((r1_zf_model \\ & X0 X1 X2) \Rightarrow (r1_zf_model X0 X1 X3)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. (m2_finseq_1 X1 X0) \Leftrightarrow (m1_finseq_1 X1 X0) \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (((v1_zf_lang X0) \wedge (m1_finseq_1 X0 k5_numbers)) \wedge \\ & ((v1_zf_lang X1) \wedge (m1_finseq_1 X1 k5_numbers))) \Rightarrow ((v1_zf_lang \\ & (k11_zf_lang X0 X1)) \wedge (m2_finseq_1 (k11_zf_lang X0 X1) k5_numbers)) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} & \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. ((v1_zf_lang X1) \wedge (\\ & m2_finseq_1 X1 k5_numbers)) \Rightarrow ((r2_zf_model X0 X1) \Leftrightarrow (\forall X2. \\ & ((v1_funct_1 X2) \wedge ((v1_funct_2 X2 k1_zf_lang X0) \wedge (m1_subset_1 \\ & X2 (k1_zfmisc_1 (k2_zfmisc_1 k1_zf_lang X0)))))) \Rightarrow (r1_zf_model \\ & X0 X2 X1)))) \end{aligned} \tag{4}$$

Theorem 1

$$\begin{aligned} & \forall X0.((v1_zf_lang\ X0)\wedge(m2_finseq_1\ X0\ k5_numbers))\Rightarrow(\forall X1. \\ & ((v1_zf_lang\ X1)\wedge(m2_finseq_1\ X1\ k5_numbers))\Rightarrow(\forall X2.(\\ & (v1_zf_lang\ X2)\wedge(m2_finseq_1\ X2\ k5_numbers))\Rightarrow(\forall X3.(\neg \\ & v1_xboole_0\ X3)\Rightarrow(r2_zf_model\ X3\ (k11_zf_lang\ (k11_zf_lang\ X0 \\ & X1)\ (k11_zf_lang\ (k11_zf_lang\ X1\ X2)\ (k11_zf_lang\ X0\ X2)))))) \end{aligned}$$