

t61_zf_lang1 (TMMAH-
meK8T9VUnJ1BnDCgksw8X3d7R3bd9h)

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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 $k2_zf_model : \iota \Rightarrow \iota$ be given. Let $k7_zf_lang : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $v2_zf_lang : \iota \Rightarrow o$ 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 $v6_zf_lang : \iota \Rightarrow o$ 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 $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\forall X1. \\ & ((v1_zf_lang X1) \wedge (m2_finseq_1 X1 k5_numbers)) \Rightarrow ((k21_zf_lang \\ & (k7_zf_lang X0 X1) = X0) \wedge (k22_zf_lang (k7_zf_lang X0 X1) = X1))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow ((\\ & (v2_zf_lang X0) \Rightarrow (k2_zf_model X0 = k2_tarski (k18_zf_lang X0) (\\ & k19_zf_lang X0))) \wedge (((v3_zf_lang X0) \Rightarrow (k2_zf_model X0 = k2_tarski \\ & (k18_zf_lang X0) (k19_zf_lang X0))) \wedge (((v4_zf_lang X0) \Rightarrow (k2_zf_model \\ & X0 = k2_zf_model (k20_zf_lang X0))) \wedge (((v5_zf_lang X0) \Rightarrow (k2_zf_model \\ & X0 = k4_subset_1 k1_zf_lang (k2_zf_model (k21_zf_lang X0)) (k2_zf_model \\ & (k22_zf_lang X0)))) \wedge (((v6_zf_lang X0) \Rightarrow (k2_zf_model X0 = k7_subset_1 \\ & k1_zf_lang (k2_zf_model (k24_zf_lang X0)) (k1_tarski (k23_zf_lang \\ & X0)))))))))) \end{aligned} \quad (2)$$

Assume the following.

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

Assume the following.

$$\forall X0.\forall X1.(((v1_zf_lang X0)\wedge(m1_finseq_1 X0 k5_numbers))\wedge ((v1_zf_lang X1)\wedge(m1_finseq_1 X1 k5_numbers)))\Rightarrow(v1_zf_lang (k7_zf_lang X0 X1)) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.((m1_finseq_1 X0 k5_numbers)\wedge(m1_finseq_1 X1 k5_numbers))\Rightarrow(m2_finseq_1 (k7_zf_lang X0 X1) k5_numbers) \quad (5)$$

Assume the following.

$$\forall X0.((v1_zf_lang X0)\wedge(m2_finseq_1 X0 k5_numbers))\Rightarrow(((v5_zf_lang X0)\Leftrightarrow(\exists X1.((v1_zf_lang X1)\wedge(m2_finseq_1 X1 k5_numbers))\wedge(\exists X2.((v1_zf_lang X2)\wedge(m2_finseq_1 X2 k5_numbers))\wedge(X0 = k7_zf_lang X1 X2)))))) \quad (6)$$

Theorem 1

$$\forall X0.((v1_zf_lang X0)\wedge(m2_finseq_1 X0 k5_numbers))\Rightarrow(\forall X1.((v1_zf_lang X1)\wedge(m2_finseq_1 X1 k5_numbers))\Rightarrow(k2_zf_model (k7_zf_lang X0 X1) = k4_subset_1 k1_zf_lang (k2_zf_model X0) (k2_zf_model X1)))$$