

t63_zf_lang (TM- MQM22mTM6EJfdXNHuTXHFkmT7jnv9qJgg)

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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 $r3_zf_lang : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_zf_lang : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $v4_zf_lang : \iota \Rightarrow o$ be given. Let $k20_zf_lang : \iota \Rightarrow \iota$ be given. Let $np_3 : \iota$ be given. Let $v7_zf_lang : \iota \Rightarrow o$ be given. Let $v5_zf_lang : \iota \Rightarrow o$ be given. Let $v6_zf_lang : \iota \Rightarrow o$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $k6_zf_lang : \iota \Rightarrow \iota$ be given. Let $k7_zf_lang : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zf_lang : \iota$ be given. Let $k8_zf_lang : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\forall X1. \\ & ((v1_zf_lang X1) \wedge (m2_finseq_1 X1 k5_numbers)) \Rightarrow (\neg(r3_zf_lang \\ & X0 X1) \wedge (r1_xxreal_0 (k3_finseq_1 X1) (k3_finseq_1 X0)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\forall X1. \\ & ((v1_zf_lang X1) \wedge (m2_finseq_1 X1 k5_numbers)) \Rightarrow ((v4_zf_lang \\ & X0) \Rightarrow ((r1_zf_lang X1 X0) \Leftrightarrow (X1 = k20_zf_lang X0)))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (r1_xxreal_0 np_3 (k3_finseq_1 X0)) \quad (3)$$

Assume the following.

$$\forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow ((v7_zf_lang X0) \Rightarrow (k3_finseq_1 X0 = np_3)) \quad (4)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\neg \\ & (\neg v7_zf_lang X0) \wedge ((\neg v4_zf_lang X0) \wedge ((\neg v5_zf_lang X0) \wedge (\neg v6_zf_lang \\ & X0)))) \end{aligned} \quad (5)$$

Assume the following.

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

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (7)$$

Assume the following.

$$\forall X0.((v1_zf_lang X0)\wedge(m1_finseq_1 X0 k5_numbers))\Rightarrow((v1_zf_lang (k20_zf_lang X0))\wedge(m2_finseq_1 (k20_zf_lang X0) k5_numbers)) \quad (8)$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_zf_lang X0)\wedge(m2_finseq_1 X0 k5_numbers))\Rightarrow(\forall X1. \\ ((v1_zf_lang X1)\wedge(m2_finseq_1 X1 k5_numbers))\Rightarrow((r1_zf_lang \\ X0 X1)\Leftrightarrow(\neg(X1\neq k6_zf_lang X0)\wedge((\forall X2.((v1_zf_lang X2)\wedge \\ m2_finseq_1 X2 k5_numbers))\Rightarrow((X1\neq k7_zf_lang X0 X2)\wedge(X1\neq k7_zf_lang \\ X2 X0))))\wedge(\forall X2.(m2_subset_1 X2 k5_numbers k1_zf_lang)\Rightarrow \\ (X1\neq k8_zf_lang X2 X0)))))) \end{aligned} \quad (9)$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_zf_lang X0)\wedge(m2_finseq_1 X0 k5_numbers))\Rightarrow((v6_zf_lang X0)\Leftrightarrow(\exists X1.(m2_subset_1 X1 k5_numbers k1_zf_lang)\wedge \\ (\exists X2.((v1_zf_lang X2)\wedge(m2_finseq_1 X2 k5_numbers))\wedge \\ (X0 = k8_zf_lang X1 X2)))))) \end{aligned} \quad (10)$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_zf_lang X0)\wedge(m2_finseq_1 X0 k5_numbers))\Rightarrow((v5_zf_lang X0)\Leftrightarrow(\exists X1.((v1_zf_lang X1)\wedge(m2_finseq_1 X1 \\ k5_numbers))\wedge(\exists X2.((v1_zf_lang X2)\wedge(m2_finseq_1 X2 k5_numbers))\wedge \\ (X0 = k7_zf_lang X1 X2)))))) \end{aligned} \quad (11)$$

Theorem 1

$$\begin{aligned} \forall X0.((v1_zf_lang X0)\wedge(m2_finseq_1 X0 k5_numbers))\Rightarrow(\forall X1. \\ ((v1_zf_lang X1)\wedge(m2_finseq_1 X1 k5_numbers))\Rightarrow(\neg(r3_zf_lang \\ X0 X1)\wedge(\forall X2.((v1_zf_lang X2)\wedge(m2_finseq_1 X2 k5_numbers))\Rightarrow \\ (\neg r1_zf_lang X2 X1)))))) \end{aligned}$$