

t57_zf_lang
(TMZxC9kr8oSjHQo4BqqqPn7q7tv8VWXZu8J)

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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 $v5_zf_lang : \iota \Rightarrow o$ be given. Let $r1_zf_lang : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k21_zf_lang : \iota \Rightarrow \iota$ be given. Let $k22_zf_lang : \iota \Rightarrow \iota$ be given. Let $k7_zf_lang : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v8_zf_lang : \iota \Rightarrow o$ be given. Let $k10_zf_lang : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\forall X1. \\ ((v1_zf_lang X1) \wedge (m2_finseq_1 X1 k5_numbers)) \Rightarrow (\forall X2. (\\ (v1_zf_lang X2) \wedge (m2_finseq_1 X2 k5_numbers)) \Rightarrow ((r1_zf_lang X0 \\ (k7_zf_lang X1 X2)) \Leftrightarrow ((X0 = X1) \vee (X0 = X2)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow ((\\ (v5_zf_lang X0) \vee (v8_zf_lang X0)) \Rightarrow (\forall X1.((v1_zf_lang X1) \wedge \\ (m2_finseq_1 X1 k5_numbers)) \Rightarrow (((v5_zf_lang X0) \Rightarrow ((X1 = k22_zf_lang \\ X0) \Leftrightarrow (\exists X2.((v1_zf_lang X2) \wedge (m2_finseq_1 X2 k5_numbers)) \wedge \\ (k7_zf_lang X2 X1 = X0)))))) \wedge ((\neg v5_zf_lang X0) \Rightarrow ((X1 = k22_zf_lang \\ X0) \Leftrightarrow (\exists X2.((v1_zf_lang X2) \wedge (m2_finseq_1 X2 k5_numbers)) \wedge \\ (k10_zf_lang X2 X1 = X0))))))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow ((\\ (v5_zf_lang X0) \vee (v8_zf_lang X0)) \Rightarrow (\forall X1.((v1_zf_lang X1) \wedge \\ (m2_finseq_1 X1 k5_numbers)) \Rightarrow (((v5_zf_lang X0) \Rightarrow ((X1 = k21_zf_lang \\ X0) \Leftrightarrow (\exists X2.((v1_zf_lang X2) \wedge (m2_finseq_1 X2 k5_numbers)) \wedge \\ (k7_zf_lang X1 X2 = X0)))))) \wedge ((\neg v5_zf_lang X0) \Rightarrow ((X1 = k21_zf_lang \\ X0) \Leftrightarrow (\exists X2.((v1_zf_lang X2) \wedge (m2_finseq_1 X2 k5_numbers)) \wedge \\ (k10_zf_lang X1 X2 = X0))))))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_zf_lang\ X0)\wedge(m2_finseq_1\ X0\ k5_numbers))\Rightarrow((\\ v5_zf_lang\ X0)\Leftrightarrow(\exists X1.((v1_zf_lang\ X1)\wedge(m2_finseq_1\ X1 \\ k5_numbers))\wedge(\exists X2.((v1_zf_lang\ X2)\wedge(m2_finseq_1\ X2\ k5_numbers))\wedge \\ (X0 = k7_zf_lang\ X1\ X2)))) \end{aligned} \tag{4}$$

Theorem 1

$$\begin{aligned} \forall X0.((v1_zf_lang\ X0)\wedge(m2_finseq_1\ X0\ k5_numbers))\Rightarrow(\forall X1. \\ ((v1_zf_lang\ X1)\wedge(m2_finseq_1\ X1\ k5_numbers))\Rightarrow((v5_zf_lang \\ X0)\Rightarrow((r1_zf_lang\ X1\ X0)\Leftrightarrow((X1 = k21_zf_lang\ X0)\vee(X1 = k22_zf_lang \\ X0)))))) \end{aligned}$$