

t47_zf_lang (TMaUQQqrHRWd- cuXV7RhJEYP3wT91baHsZKj)

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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 $v9_zf_lang : \iota \Rightarrow o$ be given. Let $k11_zf_lang : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k25_zf_lang : \iota \Rightarrow \iota$ be given. Let $k26_zf_lang : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
 & \forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\forall X1. \\
 & ((v1_zf_lang X1) \wedge (m2_finseq_1 X1 k5_numbers)) \Rightarrow ((v9_zf_lang \\
 & X0) \Rightarrow ((\neg(X1 = k25_zf_lang X0) \wedge (\forall X2.((v1_zf_lang X2) \wedge (m2_finseq_1 \\
 & X2 k5_numbers)) \Rightarrow (X0 \neq k11_zf_lang X1 X2))) \wedge ((\exists X2.((v1_zf_lang \\
 & X2) \wedge (m2_finseq_1 X2 k5_numbers)) \wedge (X0 = k11_zf_lang X1 X2)) \Rightarrow (X1 = \\
 & k25_zf_lang X0)) \wedge ((\neg(X1 = k26_zf_lang X0) \wedge (\forall X2.((v1_zf_lang \\
 & X2) \wedge (m2_finseq_1 X2 k5_numbers)) \Rightarrow (X0 \neq k11_zf_lang X2 X1))) \wedge (\\
 & (\exists X2.((v1_zf_lang X2) \wedge (m2_finseq_1 X2 k5_numbers)) \wedge (\\
 & X0 = k11_zf_lang X2 X1)) \Rightarrow (X1 = k26_zf_lang X0))))))
 \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned}
 & \forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow ((\\
 & v9_zf_lang X0) \Leftrightarrow (\exists X1.((v1_zf_lang X1) \wedge (m2_finseq_1 X1 \\
 & k5_numbers)) \wedge (\exists X2.((v1_zf_lang X2) \wedge (m2_finseq_1 X2 k5_numbers)) \wedge \\
 & (X0 = k11_zf_lang X1 X2))))
 \end{aligned} \tag{2}$$

Theorem 1

$$\begin{aligned}
 & \forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow ((\\
 & v9_zf_lang X0) \Rightarrow (X0 = k11_zf_lang (k25_zf_lang X0) (k26_zf_lang \\
 & X0)))
 \end{aligned}$$