

t14_zf_lang1
(TMRrhftE8atDQ9TtBnA1ayXqwb6n4nrxog4)

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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 $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zf_lang : \iota$ be given. Let $k14_zf_lang : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k23_zf_lang : \iota \Rightarrow \iota$ be given. Let $k8_zf_lang : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k24_zf_lang : \iota \Rightarrow \iota$ be given. Let $v6_zf_lang : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\forall X1. \\ (m2_subset_1 X1 k5_numbers k1_zf_lang) \Rightarrow ((k23_zf_lang (k8_zf_lang \\ X1 X0) = X1) \wedge (k24_zf_lang (k8_zf_lang X1 X0) = X0))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\forall X1. \\ (m2_subset_1 X1 k5_numbers k1_zf_lang) \Rightarrow (\forall X2.(m2_subset_1 \\ X2 k5_numbers k1_zf_lang) \Rightarrow ((v6_zf_lang (k14_zf_lang X1 X2 X0)) \wedge \\ ((k23_zf_lang (k14_zf_lang X1 X2 X0) = X1) \wedge (k24_zf_lang (k14_zf_lang \\ X1 X2 X0) = k8_zf_lang X2 X0)))))) \end{aligned} \quad (2)$$

Theorem 1

$$\begin{aligned} \forall X0.((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\forall X1. \\ ((v1_zf_lang X1) \wedge (m2_finseq_1 X1 k5_numbers)) \Rightarrow (\forall X2.(\\ m2_subset_1 X2 k5_numbers k1_zf_lang) \Rightarrow (\forall X3.(m2_subset_1 \\ X3 k5_numbers k1_zf_lang) \Rightarrow (\forall X4.(m2_subset_1 X4 k5_numbers \\ k1_zf_lang) \Rightarrow (\forall X5.(m2_subset_1 X5 k5_numbers k1_zf_lang) \Rightarrow \\ ((k14_zf_lang X2 X3 X0 = k14_zf_lang X4 X5 X1) \Rightarrow ((X2 = X4) \wedge ((X3 = X5) \wedge \\ (X0 = X1)))))))))) \end{aligned}$$