

t8_zf_lang
(TMZJff7D1ds11tYCE8LoACsZHkcgfBJb9DG)

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Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $k1_zf_lang : \iota$ be given. Let $v1_zf_lang : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k16_zf_lang : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_zf_lang : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k14_zf_lang : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k17_zf_lang : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13_zf_lang : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k15_zf_lang : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(m2_subset_1 X0 k5_numbers k1_zf_lang) \Rightarrow (\forall X1. \\ & (m2_subset_1 X1 k5_numbers k1_zf_lang) \Rightarrow (\forall X2.(m2_subset_1 \\ & X2 k5_numbers k1_zf_lang) \Rightarrow (\forall X3.((v1_zf_lang X3) \wedge (m2_finseq_1 \\ & X3 k5_numbers)) \Rightarrow (k17_zf_lang X0 X1 X2 X3 = k13_zf_lang X0 (k15_zf_lang \\ & X1 X2 X3)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.(m2_subset_1 X0 k5_numbers k1_zf_lang) \Rightarrow (\forall X1. \\ & (m2_subset_1 X1 k5_numbers k1_zf_lang) \Rightarrow (\forall X2.(m2_subset_1 \\ & X2 k5_numbers k1_zf_lang) \Rightarrow (\forall X3.((v1_zf_lang X3) \wedge (m2_finseq_1 \\ & X3 k5_numbers)) \Rightarrow (k16_zf_lang X0 X1 X2 X3 = k8_zf_lang X0 (k14_zf_lang \\ & X1 X2 X3)))))) \end{aligned} \tag{2}$$

Theorem 1

$$\begin{aligned} & \forall X0.(m2_subset_1 X0 k5_numbers k1_zf_lang) \Rightarrow (\forall X1. \\ & (m2_subset_1 X1 k5_numbers k1_zf_lang) \Rightarrow (\forall X2.(m2_subset_1 \\ & X2 k5_numbers k1_zf_lang) \Rightarrow (\forall X3.((v1_zf_lang X3) \wedge (m2_finseq_1 \\ & X3 k5_numbers)) \Rightarrow ((k16_zf_lang X0 X1 X2 X3 = k8_zf_lang X0 (k14_zf_lang \\ & X1 X2 X3)) \wedge (k17_zf_lang X0 X1 X2 X3 = k13_zf_lang X0 (k15_zf_lang \\ & X1 X2 X3)))))) \end{aligned}$$