

t27_cqc_sim1
(TMc2xrSSjA9JEsvtQLyyqaoU4BSgMC71oGv)

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Let $m1_qc_lang1 : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_qc_lang1 : \iota \Rightarrow \iota$ be given. Let $k3_cqc_lang : \iota \Rightarrow \iota$ be given. Let $v2_qc_lang1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k14_cqc_sim1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $k6_qc_lang1 : \iota \Rightarrow \iota$ be given. Let $k8_qc_lang1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v5_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_qc_lang1 : \iota \Rightarrow \iota$ be given. Let $v3_card_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_qc_lang1 : \iota \Rightarrow \iota$ be given. Let $k4_cqc_lang : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.(m1_qc_lang1 X0) \Rightarrow (\forall X1.(m2_subset_1 X1 (k9_qc_lang1 \\ X0) (k3_cqc_lang X0)) \Rightarrow (\neg(v2_qc_lang1 X1 X0) \wedge (\forall X2.(m1_subset_1 \\ X2 k5_numbers) \Rightarrow (\forall X3.(m2_subset_1 X3 (k6_qc_lang1 X0) (\\ k8_qc_lang1 X0 X2)) \Rightarrow (\forall X4.((v5_relat_1 X4 (k3_qc_lang1 \\ X0)) \wedge ((v3_card_1 X4 X2) \wedge (m2_finseq_1 X4 (k2_qc_lang1 X0)))) \Rightarrow \\ (X1 \neq k4_cqc_lang X2 X0 X3 X4)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(m1_qc_lang1 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 k5_numbers) \Rightarrow \\ (\forall X2.((v5_relat_1 X2 (k3_qc_lang1 X0)) \wedge ((v3_card_1 X2 \\ X1) \wedge (m2_finseq_1 X2 (k2_qc_lang1 X0)))) \Rightarrow (\forall X3.(m2_subset_1 \\ X3 (k6_qc_lang1 X0) (k8_qc_lang1 X0 X1)) \Rightarrow (k14_cqc_sim1 X0 (k4_cqc_lang \\ X1 X0 X3 X2) = k4_cqc_lang X1 X0 X3 X2)))) \end{aligned} \quad (2)$$

Theorem 1

$$\forall X0.(m1_qc_lang1 X0) \Rightarrow (\forall X1.(m2_subset_1 X1 (k9_qc_lang1 \\ X0) (k3_cqc_lang X0)) \Rightarrow ((v2_qc_lang1 X1 X0) \Rightarrow (k14_cqc_sim1 X0 X1 = \\ X1)))$$