

t46_cqc_the1 (TMLcNiVtLi- WcjDFt6gNW1MNDfnoVFAjAAj6)

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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 $k4_cqc_the1 : \iota \Rightarrow \iota$ be given. Let $k8_cqc_lang : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k1_cqc_the1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_subset_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.(m1_qc_lang1\ X0) \Rightarrow (\forall X1.(m1_subset_1\ X1\ (k1_zfmisc_1 \\ (k3_cqc_lang\ X0))) \Rightarrow (\forall X2.(m2_subset_1\ X2\ (k9_qc_lang1 \\ X0)\ (k3_cqc_lang\ X0)) \Rightarrow (\forall X3.(m2_subset_1\ X3\ (k9_qc_lang1 \\ X0)\ (k3_cqc_lang\ X0)) \Rightarrow (((X2 \in k1_cqc_the1\ X0\ X1) \wedge (k8_cqc_lang \\ X0\ X2\ X3 \in k1_cqc_the1\ X0\ X1)) \Rightarrow (X3 \in k1_cqc_the1\ X0\ X1)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.m1_subset_1\ (k1_subset_1\ X0)\ (k1_zfmisc_1\ X0) \quad (2)$$

Assume the following.

$$\forall X0.(m1_qc_lang1\ X0) \Rightarrow (k4_cqc_the1\ X0 = k1_cqc_the1\ X0\ (\\ k1_subset_1\ (k3_cqc_lang\ X0))) \quad (3)$$

Theorem 1

$$\begin{aligned} \forall X0.(m1_qc_lang1\ X0) \Rightarrow (\forall X1.(m2_subset_1\ X1\ (k9_qc_lang1 \\ X0)\ (k3_cqc_lang\ X0)) \Rightarrow (\forall X2.(m2_subset_1\ X2\ (k9_qc_lang1 \\ X0)\ (k3_cqc_lang\ X0)) \Rightarrow (((X1 \in k4_cqc_the1\ X0) \wedge (k8_cqc_lang\ X0 \\ X1\ X2 \in k4_cqc_the1\ X0)) \Rightarrow (X2 \in k4_cqc_the1\ X0)))) \end{aligned}$$