

t17_cqc_the3
(TMXVGnW23cK3Nb76Ts2Lc8UT4sbNPVrNSa5)

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Let $m1_qc_lang1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k3_cqc_lang : \iota \Rightarrow \iota$ be given. Let $r3_cqc_the3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_cqc_the1 : \iota \Rightarrow \iota$ be given. Let $r2_cqc_the3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ 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.

$$\begin{aligned} \forall X0.(m1_qc_lang1 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 \\ (k3_cqc_lang X0))) \Rightarrow (\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 \\ (k3_cqc_lang X0))) \Rightarrow ((r2_cqc_the3 X0 X1 X2) \Leftrightarrow (r1_tarski X2 (k1_cqc_the1 \\ X0 X1)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} \forall X0.(m1_qc_lang1 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 \\ (k3_cqc_lang X0))) \Rightarrow ((r3_cqc_the3 X0 X1) \Leftrightarrow (r2_cqc_the3 X0 (k1_subset_1 \\ (k3_cqc_lang X0) X1)))) \end{aligned} \tag{2}$$

Assume the following.

$$\forall X0.m1_subset_1 (k1_subset_1 X0) (k1_zfmisc_1 X0) \tag{3}$$

Assume the following.

$$\forall X0.(m1_qc_lang1 X0) \Rightarrow (k4_cqc_the1 X0 = k1_cqc_the1 X0 (\\ k1_subset_1 (k3_cqc_lang X0))) \tag{4}$$

Theorem 1

$$\begin{aligned} \forall X0.(m1_qc_lang1 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 \\ (k3_cqc_lang X0))) \Rightarrow ((r3_cqc_the3 X0 X1) \Leftrightarrow (r1_tarski X1 (k4_cqc_the1 \\ X0)))) \end{aligned}$$