

t35_cqc_the1
(TMN8LXzJsLzCE6MYn6FTQG5oUAH2YkchjDf)

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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 $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_qc_lang1 : \iota \Rightarrow \iota$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_cqc_the1 : \iota$ be given. Let $r2_cqc_the1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_cqc_the1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_cqc_the1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_cqc_the1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. (m1_qc_lang1 X0) \Rightarrow (\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 \\ (k3_cqc_lang X0))) \Rightarrow (\forall X2. (m1_subset_1 X2 (k1_zfmisc_1 \\ (k3_cqc_lang X0))) \Rightarrow ((X1 = ReplSep (toset (\lambda X3 : \iota. m2_subset_1 \\ X3 (k9_qc_lang1 X0) (k3_cqc_lang X0))) (\lambda X3 : \iota. \exists X4. \\ (m2_finseq_1 X4 (k2_zfmisc_1 (k3_cqc_lang X0) k2_cqc_the1)) \wedge \\ ((r2_cqc_the1 X0 X2 X4) \wedge (k3_cqc_the1 X0 X4 = X3))) (\lambda X3 : \iota. \\ X3)) \Rightarrow (v1_cqc_the1 X1 X0)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0. (m1_qc_lang1 X0) \Rightarrow (\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 \\ (k3_cqc_lang X0))) \Rightarrow (r1_tarski X1 (ReplSep (toset (\lambda X2 : \iota. \\ m2_subset_1 X2 (k9_qc_lang1 X0) (k3_cqc_lang X0))) (\lambda X2 : \iota. \\ \exists X3. (m2_finseq_1 X3 (k2_zfmisc_1 (k3_cqc_lang X0) k2_cqc_the1)) \wedge \\ ((r2_cqc_the1 X0 X1 X3) \wedge (k3_cqc_the1 X0 X3 = X2))) (\lambda X2 : \iota. \\ X2)))))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0. (m1_qc_lang1 X0) \Rightarrow (\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 \\ (k3_cqc_lang X0))) \Rightarrow (\forall X2. (m1_subset_1 X2 (k1_zfmisc_1 \\ (k3_cqc_lang X0))) \Rightarrow (((v1_cqc_the1 X1 X0) \wedge (r1_tarski X2 X1)) \Rightarrow \\ (r1_tarski (k1_cqc_the1 X0 X2) X1)))))) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned}
& \forall X0.(m1_qc_lang1\ X0) \Rightarrow (\forall X1.(m1_subset_1\ X1\ (k1_zfmisc_1 \\
& (k3_cqc_lang\ X0))) \Rightarrow (r1_tarski\ (ReplSep\ (toset\ (\lambda X2 : \iota.m2_subset_1 \\
& X2\ (k9_qc_lang1\ X0)\ (k3_cqc_lang\ X0)))\ (\lambda X2 : \iota.\exists X3. \\
& (m2_finseq_1\ X3\ (k2_zfmisc_1\ (k3_cqc_lang\ X0)\ k2_cqc_the1))) \wedge \\
& ((r2_cqc_the1\ X0\ X1\ X3) \wedge (k3_cqc_the1\ X0\ X3 = X2)))\ (\lambda X2 : \iota. \\
& X2))\ (k1_cqc_the1\ X0\ X1)))
\end{aligned} \tag{5}$$

Assume the following.

$$\begin{aligned}
& \forall X0.(m1_qc_lang1\ X0) \Rightarrow (\forall X1.(m1_subset_1\ X1\ (k1_zfmisc_1 \\
& (k3_cqc_lang\ X0))) \Rightarrow (r1_tarski\ (ReplSep\ (toset\ (\lambda X2 : \iota.m2_subset_1 \\
& X2\ (k9_qc_lang1\ X0)\ (k3_cqc_lang\ X0)))\ (\lambda X2 : \iota.\exists X3. \\
& (m2_finseq_1\ X3\ (k2_zfmisc_1\ (k3_cqc_lang\ X0)\ k2_cqc_the1))) \wedge \\
& ((r2_cqc_the1\ X0\ X1\ X3) \wedge (k3_cqc_the1\ X0\ X3 = X2)))\ (\lambda X2 : \iota. \\
& X2))\ (k3_cqc_lang\ X0)))
\end{aligned} \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.(X0 = X1) \Leftrightarrow ((r1_tarski\ X0\ X1) \wedge (r1_tarski\ X1\ X0)) \tag{7}$$

Theorem 1

$$\begin{aligned}
& \forall X0.(m1_qc_lang1\ X0) \Rightarrow (\forall X1.(m1_subset_1\ X1\ (k1_zfmisc_1 \\
& (k3_cqc_lang\ X0))) \Rightarrow (ReplSep\ (toset\ (\lambda X2 : \iota.m2_subset_1 \\
& X2\ (k9_qc_lang1\ X0)\ (k3_cqc_lang\ X0)))\ (\lambda X2 : \iota.\exists X3. \\
& (m2_finseq_1\ X3\ (k2_zfmisc_1\ (k3_cqc_lang\ X0)\ k2_cqc_the1))) \wedge \\
& ((r2_cqc_the1\ X0\ X1\ X3) \wedge (k3_cqc_the1\ X0\ X3 = X2)))\ (\lambda X2 : \iota. \\
& X2) = k1_cqc_the1\ X0\ X1))
\end{aligned}$$