

t35_qc_lang3 (TML7NcnJnEV7CAVjxft8J2ftLGmYKU6Nwma)

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Let $m1_qc_lang1 : \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_qc_lang1 : \iota \Rightarrow \iota$ be given. Let $k4_qc_lang3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k12_qc_lang1 : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k9_qc_lang1 : \iota \Rightarrow \iota$ be given. Let $v2_qc_lang1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_qc_lang3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k17_qc_lang1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v3_qc_lang1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k18_qc_lang1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v4_qc_lang1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k19_qc_lang1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k20_qc_lang1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v5_qc_lang1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k22_qc_lang1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
& \forall X0.(m1_qc_lang1\ X0) \Rightarrow (\forall X1.((\neg v1_xboole_0\ X1) \wedge \\
& (m1_subset_1\ X1\ (k1_zfmisc_1\ (k2_qc_lang1\ X0)))) \Rightarrow ((k4_qc_lang3 \\
& \quad X0\ X1\ (k12_qc_lang1\ X0) = k1_xboole_0) \wedge ((\forall X2.(m1_subset_1 \\
& \quad X2\ (k9_qc_lang1\ X0) \Rightarrow ((v2_qc_lang1\ X2\ X0) \Rightarrow (k4_qc_lang3\ X0\ X1\ X2 = \\
& \quad k1_qc_lang3\ X0\ (k17_qc_lang1\ X0\ X2)\ X1))) \wedge ((\forall X2.(m1_subset_1 \\
& \quad X2\ (k9_qc_lang1\ X0) \Rightarrow ((v3_qc_lang1\ X2\ X0) \Rightarrow (k4_qc_lang3\ X0\ X1\ X2 = \\
& \quad k4_qc_lang3\ X0\ X1\ (k18_qc_lang1\ X0\ X2)))) \wedge ((\forall X2.(m1_subset_1 \\
& \quad X2\ (k9_qc_lang1\ X0) \Rightarrow ((v4_qc_lang1\ X2\ X0) \Rightarrow (k4_qc_lang3\ X0\ X1\ X2 = \\
& \quad k4_subset_1\ X1\ (k4_qc_lang3\ X0\ X1\ (k19_qc_lang1\ X0\ X2))\ (k4_qc_lang3 \\
& \quad X0\ X1\ (k20_qc_lang1\ X0\ X2)))))) \wedge (\forall X2.(m1_subset_1\ X2\ (k9_qc_lang1 \\
& \quad X0) \Rightarrow ((v5_qc_lang1\ X2\ X0) \Rightarrow (k4_qc_lang3\ X0\ X1\ X2 = k4_qc_lang3\ X0 \\
& \quad X1\ (k22_qc_lang1\ X0\ X2))))))))))
\end{aligned} \tag{1}$$

Theorem 1

$$\begin{aligned}
& \forall X0.(m1_qc_lang1\ X0) \Rightarrow (\forall X1.((\neg v1_xboole_0\ X1) \wedge \\
& (m1_subset_1\ X1\ (k1_zfmisc_1\ (k2_qc_lang1\ X0)))) \Rightarrow (k4_qc_lang3 \\
& \quad X0\ X1\ (k12_qc_lang1\ X0) = k1_xboole_0))
\end{aligned}$$