

t3_qc_lang3 (TMHxVrSBLdgG- WfqBsx4heuEidAGKg7LwkYp)

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Let $m1_qc_lang1 : \iota \Rightarrow o$ be given. Let $k24_qc_lang1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k12_qc_lang1 : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_qc_lang1 : \iota \Rightarrow \iota$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k3_qc_lang1 : \iota \Rightarrow \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_subset_1 : \iota \Rightarrow \iota$ be given. Let $v2_qc_lang1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k23_qc_lang1 : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k19_qc_lang1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k20_qc_lang1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v5_qc_lang1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k22_qc_lang1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarSKI : \iota \Rightarrow \iota$ be given. Let $k21_qc_lang1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (1)$$

Assume the following.

$$\begin{aligned}
& \forall X0.(m1_qc_lang1\ X0) \Rightarrow (\forall X1.(m1_subset_1\ X1\ (k9_qc_lang1\ X0)) \Rightarrow (\forall X2.(m1_subset_1\ X2\ (k1_zfmisc_1\ (k3_qc_lang1\ X0))) \Rightarrow \\
& ((X2 = k24_qc_lang1\ X0\ X1) \Leftrightarrow (\exists X3.((v1_funct_1\ X3) \wedge ((v1_funct_2\ X3\ (k9_qc_lang1\ X0)\ (k1_zfmisc_1\ (k3_qc_lang1\ X0))) \wedge (m1_subset_1\ X3\ (k1_zfmisc_1\ (k2_zfmisc_1\ (k9_qc_lang1\ X0)\ (k1_zfmisc_1\ (k3_qc_lang1\ X0)))))) \wedge ((X2 = k3_funct_2\ (k9_qc_lang1\ X0)\ (k1_zfmisc_1\ (k3_qc_lang1\ X0))\ X3\ X1) \wedge (\forall X4.(m1_subset_1\ X4\ (k9_qc_lang1\ X0)) \Rightarrow (\forall X5.(m1_subset_1\ X5\ (k1_zfmisc_1\ (k3_qc_lang1\ X0))) \Rightarrow (\forall X6.(m1_subset_1\ X6\ (k1_zfmisc_1\ (k3_qc_lang1\ X0))) \Rightarrow (((X4 = k12_qc_lang1\ X0) \Rightarrow (k3_funct_2\ (k9_qc_lang1\ X0)\ (k1_zfmisc_1\ (k3_qc_lang1\ X0))\ X3\ X4 = k1_subset_1\ (k3_qc_lang1\ X0))) \wedge (((v2_qc_lang1\ X4\ X0) \Rightarrow (k3_funct_2\ (k9_qc_lang1\ X0)\ (k1_zfmisc_1\ (k3_qc_lang1\ X0))\ X3\ X4 = k23_qc_lang1\ X0\ (k17_qc_lang1\ X0\ X4)) \wedge (((v3_qc_lang1\ X4\ X0) \wedge (X5 = k3_funct_2\ (k9_qc_lang1\ X0)\ (k1_zfmisc_1\ (k3_qc_lang1\ X0))\ X3\ (k18_qc_lang1\ X0\ X4)) \Rightarrow (k3_funct_2\ (k9_qc_lang1\ X0)\ (k1_zfmisc_1\ (k3_qc_lang1\ X0))\ X3\ X4 = X5) \wedge (((v4_qc_lang1\ X4\ X0) \wedge ((X5 = k3_funct_2\ (k9_qc_lang1\ X0)\ (k1_zfmisc_1\ (k3_qc_lang1\ X0))\ X3\ (k19_qc_lang1\ X0\ X4)) \wedge (X6 = k3_funct_2\ (k9_qc_lang1\ X0)\ (k1_zfmisc_1\ (k3_qc_lang1\ X0))\ X3\ (k20_qc_lang1\ X0\ X4)) \Rightarrow (k3_funct_2\ (k9_qc_lang1\ X0)\ (k1_zfmisc_1\ (k3_qc_lang1\ X0))\ X3\ X4 = k4_subset_1\ (k3_qc_lang1\ X0)\ X5\ X6) \wedge (((v5_qc_lang1\ X4\ X0) \wedge (X5 = k3_funct_2\ (k9_qc_lang1\ X0)\ (k1_zfmisc_1\ (k3_qc_lang1\ X0))\ X3\ (k22_qc_lang1\ X0\ X4)) \Rightarrow (k3_funct_2\ (k9_qc_lang1\ X0)\ (k1_zfmisc_1\ (k3_qc_lang1\ X0))\ X3\ X4 = k7_subset_1\ (k3_qc_lang1\ X0)\ X5\ (k1_tarski\ (k21_qc_lang1\ X0\ X4)))))))))))))))))
\end{aligned} \tag{2}$$

Assume the following.

$$\forall X0.v1_xboole_0\ (k1_subset_1\ X0) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.((m1_qc_lang1\ X0) \wedge (m1_subset_1\ X1\ (k9_qc_lang1\ X0))) \Rightarrow (m1_subset_1\ (k24_qc_lang1\ X0\ X1)\ (k1_zfmisc_1\ (k3_qc_lang1\ X0))) \tag{4}$$

Assume the following.

$$\forall X0.(m1_qc_lang1\ X0) \Rightarrow (m1_subset_1\ (k12_qc_lang1\ X0)\ (k9_qc_lang1\ X0)) \tag{5}$$

Theorem 1

$$\forall X0.(m1_qc_lang1\ X0) \Rightarrow (k24_qc_lang1\ X0\ (k12_qc_lang1\ X0) = k1_xboole_0)$$