

t2_qc_lang1 (TMPZjYcabEk- SWh9cYZv4m1tWu8gKLbJ1Y4A)

October 27, 2020

Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.\forall X1.\forall X2.(r1_tarski\ X0\ X1) \Rightarrow ((r1_tarski \\ (k2_zfmisc_1\ X0\ X2)\ (k2_zfmisc_1\ X1\ X2)) \wedge (r1_tarski\ (k2_zfmisc_1 \\ X2\ X0)\ (k2_zfmisc_1\ X2\ X1))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1\ X0\ X1) \Rightarrow ((v1_xboole_0\ X1) \vee (X0 \in X1)) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.((X0 \in X3) \wedge ((X1 \in X3) \wedge (X2 \in X3))) \Rightarrow (r1_tarski\ (k1_enumset1\ X0\ X1\ X2)\ X3) \tag{3}$$

Theorem 1

$$\begin{aligned} \forall X0.(\neg v1_xboole_0\ X0) \Rightarrow (\forall X1.\forall X2.(m1_subset_1 \\ X2\ X0) \Rightarrow (\forall X3.(m1_subset_1\ X3\ X0) \Rightarrow (\forall X4.(m1_subset_1 \\ X4\ X0) \Rightarrow (r1_tarski\ (k2_zfmisc_1\ (k1_enumset1\ X2\ X3\ X4)\ X1)\ (k2_zfmisc_1 \\ X0\ X1)))))) \end{aligned}$$