

l7_qc_lang1

(TMTqZkmSsJBkbKatBcwfwcxZ2wftBbSEnK3)

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Let $m1_qc_lang1 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $np_4 : \iota$ be given. Let $k1_qc_lang1 : \iota \Rightarrow \iota$ be given. Let $k2_qc_lang1 : \iota \Rightarrow \iota$ be given. Let $np_5 : \iota$ be given. Let $np_6 : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.((r1_tarski X0 X1) \wedge (r1_tarski X2 X3)) \Rightarrow (r1_tarski (k2_zfmisc_1 X0 X2) (k2_zfmisc_1 X1 X3)) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.r1_tarski (k1_tarski X0) (k2_tarski X0 X1) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(r1_tarski X0 X1) \Rightarrow (r1_tarski X0 (k2_xboole_0 X2 X1)) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.r1_tarski X0 X0 \quad (4)$$

Assume the following.

$$\forall X0.(m1_qc_lang1 X0) \Rightarrow (k2_qc_lang1 X0 = k2_xboole_0 (k2_zfmisc_1 (k1_tarski np_6) k5_numbers) (k2_zfmisc_1 (k2_tarski np_4 np_5) (k1_qc_lang1 X0))) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.k2_xboole_0 X0 X1 = k2_xboole_0 X1 X0 \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.k2_tarski X0 X1 = k2_tarski X1 X0 \quad (7)$$

Theorem 1

$$\forall X0.(m1_qc_lang1\ X0)\Rightarrow((r1_tarski\ (k2_zfmisc_1\ (k1_tarski\ np_4)\ (k1_qc_lang1\ X0))\ (k2_qc_lang1\ X0))\wedge((r1_tarski\ (k2_zfmisc_1\ (k1_tarski\ np_5)\ (k1_qc_lang1\ X0))\ (k2_qc_lang1\ X0))\wedge(r1_tarski\ (k2_zfmisc_1\ (k1_tarski\ np_6)\ k5_numbers)\ (k2_qc_lang1\ X0))))$$