

t3_qc_lang1
(TMLiJtrqN3vDYM4TwYjjW7izM1TS9e1S6Ke)

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Let $m1_qc_lang1 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $k1_qc_lang1 : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \neg (X0 \in X1) \wedge (v1_xboole_0 X1) \quad (1)$$

Assume the following.

$$\forall X0. r1_tarski k1_xboole_0 X0 \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \neg (X0 \neq k1_xboole_0) \wedge ((X1 \neq k1_xboole_0) \wedge \\ & (\neg (k9_xtuple_0 (k2_zfmisc_1 X0 X1) = X0) \wedge (k10_xtuple_0 (k2_zfmisc_1 \\ & \quad X0 X1) = X1))) \end{aligned} \quad (3)$$

Assume the following.

$$np_1 \in k5_numbers \quad (4)$$

Assume the following.

$$k6_numbers \in k5_numbers \quad (5)$$

Assume the following.

$$v1_xboole_0 k1_xboole_0 \quad (6)$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (7)$$

Assume the following.

$$\forall X0. (m1_qc_lang1 X0) \Rightarrow (k1_qc_lang1 X0 = k10_xtuple_0 X0) \quad (8)$$

Assume the following.

$$\forall X0.(m1_qc_lang1 X0) \Leftrightarrow ((\neg v1_xboole_0 X0) \wedge (\exists X1. (r1_tarski k5_numbers X1) \wedge (X0 = k2_zfmisc_1 k5_numbers X1))) \quad (9)$$

Assume the following.

$$\forall X0.\forall X1.(X0 = X1) \Leftrightarrow ((r1_tarski X0 X1) \wedge (r1_tarski X1 X0)) \quad (10)$$

Theorem 1

$$\forall X0.(m1_qc_lang1 X0) \Rightarrow ((r1_tarski k5_numbers (k1_qc_lang1 X0)) \wedge (k6_numbers \in k1_qc_lang1 X0))$$