

t5_qc_lang1 (TMPjRHZNjeMQBjMZdUNnbb- wTqp4qVWpycLr)

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

$$\forall X0. \forall X1. (k2_zfmisc_1 X0 X1 = k1_xboole_0) \Leftrightarrow ((X0 = k1_xboole_0) \vee (X1 = k1_xboole_0)) \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \neg (X0 \neq k1_xboole_0) \wedge ((X1 \neq k1_xboole_0) \wedge \\ & (\neg (k9_xtuple_0 (k2_zfmisc_1 X0 X1) = X0) \wedge (k10_xtuple_0 (k2_zfmisc_1 \\ & X0 X1) = X1))) \end{aligned} \quad (2)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (3)$$

Assume the following.

$$v1_xboole_0 k1_xboole_0 \quad (4)$$

Assume the following.

$$k1_xboole_0 = the (\lambda X0 : \iota. v1_xboole_0 X0) \quad (5)$$

Assume the following.

$$\forall X0. (m1_qc_lang1 X0) \Rightarrow (k1_qc_lang1 X0 = k10_xtuple_0 X0) \quad (6)$$

Assume the following.

$$\begin{aligned} & \forall X0. (m1_qc_lang1 X0) \Leftrightarrow ((\neg v1_xboole_0 X0) \wedge (\exists X1. \\ & (r1_tarski k5_numbers X1) \wedge (X0 = k2_zfmisc_1 k5_numbers X1))) \end{aligned} \quad (7)$$

Theorem 1

$$\forall X0. (m1_qc_lang1 X0) \Rightarrow (X0 = k2_zfmisc_1 k5_numbers (k1_qc_lang1 X0))$$