

t26_zf_lang (TMTL- CYGQ7FwgZ47mgBBm8TxKxgtHj3xTT6B)

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Let $v1_zf_lang : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $np_2 : \iota$ be given. Let $v4_zf_lang : \iota \Rightarrow o$ be given. Let $v2_zf_lang : \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $v3_zf_lang : \iota \Rightarrow o$ be given. Let $v5_zf_lang : \iota \Rightarrow o$ be given. Let $np_3 : \iota$ be given. Let $v6_zf_lang : \iota \Rightarrow o$ be given. Let $np_4 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0. ((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow (\neg \\ (\neg(v2_zf_lang X0) \wedge (k1_funct_1 X0 np_1 = k6_numbers)) \wedge ((\neg(v3_zf_lang \\ X0) \wedge (k1_funct_1 X0 np_1 = np_1)) \wedge ((\neg(v4_zf_lang X0) \wedge (k1_funct_1 \\ X0 np_1 = np_2)) \wedge ((\neg(v5_zf_lang X0) \wedge (k1_funct_1 X0 np_1 = np_3)) \wedge \\ (\neg(v6_zf_lang X0) \wedge (k1_funct_1 X0 np_1 = np_4)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\neg v1_xboole_0 np_2 \tag{2}$$

Assume the following.

$$k6_numbers = k1_xboole_0 \tag{3}$$

Assume the following.

$$v1_xboole_0 k1_xboole_0 \tag{4}$$

Theorem 1

$$\forall X0. ((v1_zf_lang X0) \wedge (m2_finseq_1 X0 k5_numbers)) \Rightarrow ((k1_funct_1 X0 np_1 = np_2) \Rightarrow (v4_zf_lang X0))$$