

t16_funct_7

(TMQRQHFF2zGynysWXyp6NNYhgr9cdgefUyu)

October 27, 2020

Let $k4_numbers : \iota$ be given. Let $k3_finseq_2 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $k13_finseq_1 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v4_funct_1 : \iota \Rightarrow o$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_int_1 : \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Assume the following.

$$np_1 = k1_tarski\ k1_xboole_0 \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.(X0 \in X1) \Rightarrow (m1_subset_1\ X0\ X1) \quad (2)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0\ np_1) \wedge (m2_subset_1\ np_1\ k1_numbers\ k5_numbers)) \wedge \\ & ((m1_subset_1\ np_1\ k5_numbers) \wedge (m1_subset_1\ np_1\ k1_numbers)) \end{aligned} \quad (3)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (4)$$

Assume the following.

$$\forall X0.k3_finseq_2\ X0 = k13_finseq_1\ X0 \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.\neg v1_xboole_0\ (k2_tarski\ X0\ X1) \quad (6)$$

Assume the following.

$$\forall X0.v4_funct_1\ (k13_finseq_1\ X0) \quad (7)$$

Assume the following.

$$v1_xboole_0 \ k1_xboole_0 \tag{8}$$

Assume the following.

$$\forall X0.\forall X1.k4_tarSKI \ X0 \ X1 = k2_tarSKI \ (k2_tarSKI \ X0 \ X1) \ (k1_tarSKI \ X0) \tag{9}$$

Assume the following.

$$\forall X0.(v1_int_1 \ X0) \Leftrightarrow (X0 \in k4_numbers) \tag{10}$$

Assume the following.

$$\forall X0.\forall X1.(X1 = k1_tarSKI \ X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Leftrightarrow (X2 = X0)) \tag{11}$$

Assume the following.

$$\forall X0.(v1_relat_1 \ X0) \Leftrightarrow (\forall X1.\neg(X1 \in X0) \wedge (\forall X2.\forall X3.X1 \neq k4_tarSKI \ X2 \ X3)) \tag{12}$$

Assume the following.

$$\forall X0.\forall X1.k2_tarSKI \ X0 \ X1 = k2_tarSKI \ X1 \ X0 \tag{13}$$

Assume the following.

$$\forall X0.(m1_subset_1 \ X0 \ k4_ordinal1) \Rightarrow (v7_ordinal1 \ X0) \tag{14}$$

Assume the following.

$$\forall X0.(v4_funct_1 \ X0) \Rightarrow (\forall X1.(m1_subset_1 \ X1 \ X0) \Rightarrow ((v1_relat_1 \ X1) \wedge (v1_funct_1 \ X1))) \tag{15}$$

Assume the following.

$$\forall X0.(v7_ordinal1 \ X0) \Rightarrow (v1_int_1 \ X0) \tag{16}$$

Theorem 1 $k4_numbers \neq k3_finseq_2 \ k4_numbers$.