

t9_abc Miz_a (TM-
FZVqzvX9QL35mjhZYLdpVCqWk7HxhHY1B)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_abc Miz_1 : \iota$ be given. Let $k9_abc Miz_1 : \iota$ be given. Let $k10_abc Miz_1 : \iota$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k5_numbers : \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_abc Miz_1 : \iota \Rightarrow \iota$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_xtuple_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned}
 k2_abc Miz_1 = & \text{ReplSep2 } (toset (\lambda X0 : \iota. m1_subset_1 X0 (k1_zfmisc_1 \\
 & k2_abc Miz_1))) (\lambda X0 : \iota. toset (\lambda X1 : \iota. m1_subset_1 X1 \\
 & k5_numbers)) (\lambda X0 : \iota. \lambda X1 : \iota. v1_finset_1 X0) (\lambda X0 : \\
 & \iota. \lambda X1 : \iota. k4_tarski (k1_abc Miz_1 X0) X1)
 \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned}
 & ((v2_xxreal_0 np_1) \wedge (m2_subset_1 np_1 k1_numbers k5_numbers)) \wedge \\
 & ((m1_subset_1 np_1 k5_numbers) \wedge (m1_subset_1 np_1 k1_numbers))
 \end{aligned} \tag{2}$$

Assume the following.

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

Assume the following.

$$k5_numbers = k4_ordinal1 \tag{4}$$

Assume the following.

$$v1_xboole_0 k1_xboole_0 \tag{5}$$

Assume the following.

$$k10_abc Miz_1 = np_1 \tag{6}$$

Assume the following.

$$k9_abc Miz_1 = k6_numbers \tag{7}$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k4_ordinal1) \Rightarrow (v7_ordinal1 X0) \quad (8)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow ((v7_ordinal1 X0) \wedge (\neg v1_xtuple_0 X0)) \quad (9)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k2_abcmiz_1) \Rightarrow (v1_xtuple_0 X0) \quad (10)$$

Assume the following.

$$\forall X0.(v1_xtuple_0 X0) \Rightarrow (\neg v1_xboole_0 X0) \quad (11)$$

Theorem 1

$$\forall X0.(m1_subset_1 X0 k2_abcmiz_1) \Rightarrow ((X0 \neq k9_abcmiz_1) \wedge (X0 \neq k10_abcmiz_1))$$