

t27_abcmiz_1
(TMQJSCNR3VgxK3Qgmg4iSJpuwMaxaahDHYu)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_abcmiz_1 : \iota$ be given. Let $k1_abcmiz_1 : \iota \Rightarrow \iota$ be given. Let $k6_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_abcmiz_1 : \iota \Rightarrow \iota$ be given. Let $k1_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (k1_xtuple_0 (k4_tarski X0 X1) = X0) \wedge (k2_xtuple_0 (k4_tarski X0 X1) = X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 X1) \Rightarrow ((v1_xboole_0 X1) \vee (X0 \in X1)) \quad (2)$$

Assume the following.

$$\forall X0. (m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 k2_abcmiz_1)) \Rightarrow (k1_abcmiz_1 (k1_tarski (k4_tarski (k1_abcmiz_1 X1) X0)) = k2_xboole_0 (k1_abcmiz_1 X1) (k1_tarski (k4_tarski (k1_abcmiz_1 X1) X0)))) \quad (3)$$

Assume the following.

$$k2_abcmiz_1 = ReplSep2 (toset (\lambda X0 : \iota. m1_subset_1 X0 (k1_zfmisc_1 k2_abcmiz_1))) (\lambda X0 : \iota. toset (\lambda X1 : \iota. m1_subset_1 X1 k5_numbers)) (\lambda X0 : \iota. \lambda X1 : \iota. v1_finset_1 X0) (\lambda X0 : \iota. \lambda X1 : \iota. k4_tarski (k1_abcmiz_1 X0) X1) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. ((\neg v1_xboole_0 X0) \wedge (m1_subset_1 X1 X0)) \Rightarrow (k6_domain_1 X0 X1 = k1_tarski X1) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((m1_subset_1 X1 (k1_zfmisc_1 X0))\wedge(m1_subset_1 X2 (k1_zfmisc_1 X0)))\Rightarrow(k4_subset_1 X0 X1 X2 = k2_xboole_0 X1 X2) \quad (6)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k2_abcmiz_1)\Rightarrow(k3_abcmiz_1 X0 = k1_xtuple_0 X0) \quad (7)$$

Assume the following.

$$\forall X0.k1_abcmiz_1 (k1_abcmiz_1 X0) = k1_abcmiz_1 X0 \quad (8)$$

Assume the following.

$$\neg v1_xboole_0 k2_abcmiz_1 \quad (9)$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1_xboole_0 X0)\wedge(m1_subset_1 X1 X0))\Rightarrow(m1_subset_1 (k6_domain_1 X0 X1) (k1_zfmisc_1 X0)) \quad (10)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k2_abcmiz_1)\Rightarrow(m1_subset_1 (k3_abcmiz_1 X0) (k1_zfmisc_1 k2_abcmiz_1)) \quad (11)$$

Assume the following.

$$\forall X0.\forall X1.k4_tarski X0 X1 = k2_tarski (k2_tarski X0 X1) (k1_tarski X0) \quad (12)$$

Theorem 1

$$\forall X0.(m1_subset_1 X0 k2_abcmiz_1)\Rightarrow(k1_abcmiz_1 (k6_domain_1 k2_abcmiz_1 X0) = k4_subset_1 k2_abcmiz_1 (k3_abcmiz_1 X0) (k6_domain_1 k2_abcmiz_1 X0))$$