

t10_amistd_1
(TMVkHqssL2J3193tYzyn4vE6ZTLFLr1E4Em)

October 27, 2020

Let $v1_setfam_1 : \iota \Rightarrow o$ 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 $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_compos_1 : \iota \Rightarrow \iota$ be given. Let $k4_amistd_1 : \iota \Rightarrow \iota$ be given. Let $k2_compos_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k1_amistd_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k1_ordinal1 : \iota \Rightarrow \iota$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k6_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k1_nat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & ((v2_xxreal_0\ np_1) \wedge (m2_subset_1\ np_1\ k1_numbers\ k5_numbers)) \wedge \\ & ((m1_subset_1\ np_1\ k5_numbers) \wedge (m1_subset_1\ np_1\ k1_numbers)) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((\neg v1_xboole_0\ X0) \wedge ((\neg v1_xboole_0\ X1) \wedge \\ & (m1_subset_1\ X1\ (k1_zfmisc_1\ X0)))) \Rightarrow (\forall X2. (m2_subset_1 \\ & X2\ X0\ X1) \Leftrightarrow (m1_subset_1\ X2\ X1)) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((\neg v1_xboole_0\ X0) \wedge (m1_subset_1\ X1\ X0)) \Rightarrow \\ & (k6_domain_1\ X0\ X1 = k1_tarski\ X1) \end{aligned} \quad (3)$$

Assume the following.

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

Assume the following.

$$\begin{aligned} & \forall X0. (v7_ordinal1\ X0) \Rightarrow (\forall X1. (\neg v1_setfam_1\ X1) \Rightarrow (\\ & \forall X2. (m2_subset_1\ X2\ k1_numbers\ k5_numbers) \Rightarrow (\forall X3. \\ & (m1_subset_1\ X3\ (u1_compos_1\ (k4_amistd_1\ X1))) \Rightarrow (((X2 = X0) \wedge \\ & k2_compos_0\ (u1_compos_1\ (k4_amistd_1\ X1))\ X3 = np_1) \Rightarrow (k1_amistd_1 \\ & X1\ (k4_amistd_1\ X1)\ X2\ X3 = k6_domain_1\ k5_numbers\ (k1_nat_1\ X0\ np_1)))))) \end{aligned} \quad (5)$$

Assume the following.

$$(\neg v1_xboole_0 \ k4_ordinal1) \wedge (v3_ordinal1 \ k4_ordinal1) \quad (6)$$

Assume the following.

$$m1_subset_1 \ k5_numbers \ (k1_zfmisc_1 \ k1_numbers) \quad (7)$$

Assume the following.

$$\forall X0. \forall X1. ((v7_ordinal1 \ X0) \wedge (m1_subset_1 \ X1 \ k5_numbers)) \Rightarrow \\ (m2_subset_1 \ (k1_nat_1 \ X0 \ X1) \ k1_numbers \ k5_numbers) \quad (8)$$

Assume the following.

$$\forall X0. (v7_ordinal1 \ X0) \Rightarrow (k1_ordinal1 \ X0 = k1_nat_1 \ X0 \ np_1) \quad (9)$$

Assume the following.

$$\forall X0. (m1_subset_1 \ X0 \ k4_ordinal1) \Rightarrow (v7_ordinal1 \ X0) \quad (10)$$

Assume the following.

$$\forall X0. (v1_xboole_0 \ X0) \Rightarrow (\forall X1. (m1_subset_1 \ X1 \ (k1_zfmisc_1 \\ X0)) \Rightarrow (v1_xboole_0 \ X1)) \quad (11)$$

Theorem 1

$$\forall X0. (\neg v1_setfam_1 \ X0) \Rightarrow (\forall X1. (m2_subset_1 \ X1 \ k1_numbers \\ k5_numbers) \Rightarrow (\forall X2. (m1_subset_1 \ X2 \ (u1_compos_1 \ (k4_amistd_1 \\ X0))) \Rightarrow ((k2_compos_0 \ (u1_compos_1 \ (k4_amistd_1 \ X0)) \ X2 = np_1) \Rightarrow \\ (k1_amistd_1 \ X0 \ (k4_amistd_1 \ X0) \ X1 \ X2 = k1_tarski \ (k1_ordinal1 \\ X1))))))$$