

t3_ami_6

(TMRN8uApigCNNETftzP3C44FgmUhHV5PtSe)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_compos_0 : \iota \Rightarrow \iota$ be given. Let $u1_compos_1 : \iota \Rightarrow \iota$ be given. Let $k1_ami_3 : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k3_compos_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k2_compos_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_compos_1 : \iota \Rightarrow \iota$ be given. Let $l1_compos_1 : \iota \Rightarrow o$ be given. Let $k1_compos_1 : \iota$ be given. Let $k5_xtuple_0 : \iota \Rightarrow \iota$ 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 $v1_compos_0 : \iota \Rightarrow o$ be given. Let $v2_compos_0 : \iota \Rightarrow o$ be given. Let $k6_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_numbers : \iota$ be given. Let $k2_afinsq_1 : \iota \Rightarrow \iota$ be given. Let $k4_compos_1 : \iota \Rightarrow \iota$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $v3_compos_0 : \iota \Rightarrow o$ be given. Let $v5_compos_0 : \iota \Rightarrow o$ be given. Let $l1_extpro_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $l1_memstr_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_compos_1 : \iota \Rightarrow o$ be given. Let $v1_extpro_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_2 : \iota$ be given. Let $c1_ortsp_1 : \iota$ be given. Let $k2_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k1_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xtuple_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_compos_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 (u1_compos_1 k1_ami_3)) \Rightarrow ((k2_compos_0 \\ & (u1_compos_1 k1_ami_3) X0 = k6_numbers) \Rightarrow (X0 = k2_compos_1 k1_ami_3)) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.(l1_compos_1 X0) \Rightarrow (k2_compos_0 (u1_compos_1 X0) (k2_compos_1 X0) = k6_numbers) \quad (2)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 (u1_compos_1 k1_compos_1)) \Rightarrow (k5_xtuple_0 X0 = k6_numbers) \quad (3)$$

Assume the following.

$$m1_subset_1 k1_xboole_0 k4_ordinal1 \quad (4)$$

Assume the following.

$$\forall X0.((\neg v1_xboole_0 X0) \wedge ((v1_compos_0 X0) \wedge (v2_compos_0 X0))) \Rightarrow (\forall X1.(m1_subset_1 X1 X0) \Rightarrow ((k5_xtuple_0 X1 = k1_xboole_0) \Rightarrow (k3_compos_0 X0 (k2_compos_0 X0 X1) = k6_domain_1 k5_numbers k6_numbers))) \quad (5)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1_xboole_0 X0) \wedge (m1_subset_1 X1 X0)) \Rightarrow (k6_domain_1 X0 X1 = k1_tarski X1) \quad (7)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (8)$$

Assume the following.

$$\forall X0.(l1_compos_1 X0) \Rightarrow ((k2_afinsq_1 (k4_compos_1 X0) = k6_domain_1 k5_numbers k6_numbers) \wedge (k6_numbers \in k2_afinsq_1 (k4_compos_1 X0))) \quad (9)$$

Assume the following.

$$(\neg v1_xboole_0 k4_ordinal1) \wedge (v3_ordinal1 k4_ordinal1) \quad (10)$$

Assume the following.

$$\forall X0.(l1_compos_1 X0) \Rightarrow ((v1_compos_0 (u1_compos_1 X0)) \wedge ((v2_compos_0 (u1_compos_1 X0)) \wedge ((v3_compos_0 (u1_compos_1 X0)) \wedge (v5_compos_0 (u1_compos_1 X0)))))) \quad (11)$$

Assume the following.

$$\forall X0.\forall X1.(l1_extpro_1 X1 X0) \Rightarrow ((l1_memstr_0 X1 X0) \wedge (l1_compos_1 X1)) \quad (12)$$

Assume the following.

$$\forall X0.(l1_compos_1 X0) \Rightarrow (m1_subset_1 (k2_compos_1 X0) (u1_compos_1 X0)) \quad (13)$$

Assume the following.

$$(v1_compos_1 k1_compos_1) \wedge (l1_compos_1 k1_compos_1) \quad (14)$$

Assume the following.

$$(v1_extpro_1 k1_ami_3 np_2) \wedge (l1_extpro_1 k1_ami_3 np_2) \quad (15)$$

Assume the following.

$$c1_ortsp_1 = k1_tarski\ k6_numbers \quad (16)$$

Assume the following.

$$\forall X0.k5_xtuple_0\ X0 = k2_xtuple_0\ (k1_xtuple_0\ X0) \quad (17)$$

Assume the following.

$$\forall X0.\forall X1.k4_tarski\ X0\ X1 = k2_tarski\ (k2_tarski\ X0\ X1)\ (k1_tarski\ X0) \quad (18)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.k3_xtuple_0\ X0\ X1\ X2 = k4_tarski\ (k4_tarski\ X0\ X1)\ X2 \quad (19)$$

Assume the following.

$$\forall X0.(v5_compos_0\ X0) \Rightarrow (k6_compos_0\ X0 = k3_xtuple_0\ k6_numbers\ k1_xboole_0\ k1_xboole_0) \quad (20)$$

Assume the following.

$$\forall X0.(l1_compos_1\ X0) \Rightarrow (k2_compos_1\ X0 = k6_compos_0\ (u1_compos_1\ X0)) \quad (21)$$

Assume the following.

$$\forall X0.\forall X1.k2_tarski\ X0\ X1 = k2_tarski\ X1\ X0 \quad (22)$$

Assume the following.

$$\forall X0.(v5_compos_0\ X0) \Rightarrow (\neg v1_xboole_0\ X0) \quad (23)$$

Theorem 1

$$\forall X0.(m1_subset_1\ X0\ (k1_compos_0\ (u1_compos_1\ k1_ami_3))) \Rightarrow ((X0 = k6_numbers) \Rightarrow (k3_compos_0\ (u1_compos_1\ k1_ami_3)\ X0 = k1_tarski\ k6_numbers))$$