

t17_scmfsa10

(TMJx2dD7DqVfysR4TNptK8XoyhhsbnhVK8m)

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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 $k1_scmfsa_2 : \iota$ 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 $k3_xtuple_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k1_compos_1 : \iota$ be given. Let $k5_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k2_compos_1 : \iota \Rightarrow \iota$ be given. Let $k1_ami_3 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_compos_0 : \iota \Rightarrow o$ be given. Let $v4_funct_1 : \iota \Rightarrow o$ be given. Let $l1_compos_1 : \iota \Rightarrow o$ be given. Let $v2_compos_0 : \iota \Rightarrow o$ 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 $v1_extpro_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_3 : \iota$ be given. Let $v1_compos_1 : \iota \Rightarrow o$ be given. Let $c1_ortsp_1 : \iota$ be given. Let $k6_compos_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.(m1_subset_1 X0 (u1_compos_1 k1_scmfsa_2)) \Rightarrow ((k2_compos_0 \\ (u1_compos_1 k1_scmfsa_2) X0 = k6_numbers) \Rightarrow (X0 = k3_xtuple_0 k6_numbers \\ k1_xboole_0 k1_xboole_0)) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 (u1_compos_1 k1_compos_1)) \Rightarrow (k5_xtuple_0 \\ X0 = k6_numbers) \tag{2}$$

Assume the following.

$$k2_compos_1 k1_ami_3 = k3_xtuple_0 k6_numbers k1_xboole_0 k1_xboole_0 \tag{3}$$

Assume the following.

$$k6_numbers = k1_xboole_0 \tag{4}$$

Assume the following.

$$\forall X0.(\neg v1_xboole_0 X0) \Rightarrow (\neg (X0 \neq k1_tarski k1_xboole_0) \wedge \\ ((k1_xboole_0 \in X0) \wedge (\forall X1. \neg (X1 \in X0) \wedge (X1 \neq k1_xboole_0)))) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.(((\neg v1_xboole_0 X0)\wedge(v1_compos_0 X0))\wedge(m1_subset_1 X1 (k1_compos_0 X0)))\Rightarrow((\neg v1_xboole_0 (k3_compos_0 X0 X1))\wedge(v4_funct_1 (k3_compos_0 X0 X1))) \quad (6)$$

Assume the following.

$$\forall X0.(l1_compos_1 X0)\Rightarrow((v1_compos_0 (u1_compos_1 X0))\wedge((v2_compos_0 (u1_compos_1 X0))\wedge((v3_compos_0 (u1_compos_1 X0))\wedge(v5_compos_0 (u1_compos_1 X0))))) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.(l1_extpro_1 X1 X0)\Rightarrow((l1_memstr_0 X1 X0)\wedge(l1_compos_1 X1)) \quad (8)$$

Assume the following.

$$\forall X0.(l1_compos_1 X0)\Rightarrow(m1_subset_1 (k2_compos_1 X0) (u1_compos_1 X0)) \quad (9)$$

Assume the following.

$$(v1_extpro_1 k1_scmf_sa_2 np_3)\wedge(l1_extpro_1 k1_scmf_sa_2 np_3) \quad (10)$$

Assume the following.

$$(v1_compos_1 k1_compos_1)\wedge(l1_compos_1 k1_compos_1) \quad (11)$$

Assume the following.

$$c1_ortsp_1 = k1_tarski k6_numbers \quad (12)$$

Assume the following.

$$\forall X0.((\neg v1_xboole_0 X0)\wedge(v1_compos_0 X0))\Rightarrow(\forall X1.(m1_subset_1 X1 (k1_compos_0 X0))\Rightarrow(k3_compos_0 X0 X1 = ReplSep (toiset (\lambda X2 : \iota.m1_subset_1 X2 X0)) (\lambda X2 : \iota.k2_compos_0 X0 X2 = X1) (\lambda X2 : \iota.k5_xtuple_0 X2))) \quad (13)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0)\Leftrightarrow(\forall X1.\neg X1 \in X0) \quad (14)$$

Assume the following.

$$\forall X0.(v5_compos_0 X0)\Rightarrow(k6_compos_0 X0 = k3_xtuple_0 k6_numbers k1_xboole_0 k1_xboole_0) \quad (15)$$

Assume the following.

$$\forall X0.(l1_compos_1 X0) \Rightarrow (k2_compos_1 X0 = k6_compos_0 (u1_compos_1 X0)) \quad (16)$$

Assume the following.

$$\forall X0.(v5_compos_0 X0) \Rightarrow (\neg v1_xboole_0 X0) \quad (17)$$

Theorem 1

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 (k1_compos_0 (u1_compos_1 k1_scmfsa_2))) \Rightarrow \\ & ((X0 = k6_numbers) \Rightarrow (k3_compos_0 (u1_compos_1 k1_scmfsa_2) X0 = \\ & \quad k1_tarski k6_numbers)) \end{aligned}$$