

t3_sfmistr3

(TMGiKVZkj4bimAA6iS5qzzPTft5NAWN9p7D)

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Let $v1_ami_2 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k1_scmf_sa_2 : \iota$ be given. Let $r2_scmf_sa_7b : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_compos_1 : \iota \Rightarrow \iota$ be given. Let $r1_scmf_sa_7b : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_compos_1 : \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v5_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $k5_afinsq_1 : \iota \Rightarrow \iota$ be given. Let $k2_afinsq_1 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k3_afinsq_1 : \iota \Rightarrow \iota$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $v5_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_compos_1 : \iota \Rightarrow \iota$ be given. Let $v7_amistd_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_3 : \iota$ be given. Let $v1_scmf_sa_7b : \iota \Rightarrow o$ 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 $l1_compos_1 : \iota \Rightarrow o$ be given. Let $v1_extpro_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((v1_ami_2 X0) \wedge (m1_subset_1 X0 (u1_struct_0 k1_scmf_sa_2))) \Rightarrow (\neg r1_scmf_sa_7b (k2_compos_1 k1_scmf_sa_2) X0) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. ((v1_relat_1 X1) \wedge ((v5_ordinal1 X1) \wedge ((v1_funct_1 X1) \wedge (v1_finset_1 X1)))) \Rightarrow ((X1 = k5_afinsq_1 X0) \Leftrightarrow ((k2_afinsq_1 X1 = np_1) \wedge (k10_xtuple_0 X1 = k1_tarski X0))) \quad (2)$$

Assume the following.

$$\forall X0. k5_afinsq_1 X0 = k3_afinsq_1 X0 \quad (3)$$

Assume the following.

$$\forall X0. (v5_ordinal1 (k3_afinsq_1 X0)) \wedge (v1_finset_1 (k3_afinsq_1 X0)) \quad (4)$$

Assume the following.

$$(v1_relat_1 (k4_compos_1 k1_scmfsa_2)) \wedge ((v4_relat_1 (k4_compos_1 k1_scmfsa_2) k5_numbers) \wedge ((v5_relat_1 (k4_compos_1 k1_scmfsa_2) (u1_compos_1 k1_scmfsa_2)) \wedge ((v1_funct_1 (k4_compos_1 k1_scmfsa_2)) \wedge ((v1_finset_1 (k4_compos_1 k1_scmfsa_2)) \wedge ((v7_amistd_1 (k4_compos_1 k1_scmfsa_2) np_3 k1_scmfsa_2) \wedge (v1_scmfsa7b (k4_compos_1 k1_scmfsa_2)))))))))) \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. (l1_extpro_1 X1 X0) \Rightarrow ((l1_memstr_0 X1 X0) \wedge (l1_compos_1 X1)) \quad (6)$$

Assume the following.

$$\forall X0. (v1_relat_1 (k5_afinsq_1 X0)) \wedge (v1_funct_1 (k5_afinsq_1 X0)) \quad (7)$$

Assume the following.

$$(v1_extpro_1 k1_scmfsa_2 np_3) \wedge (l1_extpro_1 k1_scmfsa_2 np_3) \quad (8)$$

Assume the following.

$$\forall X0. ((v1_relat_1 X0) \wedge ((v4_relat_1 X0 k5_numbers) \wedge ((v5_relat_1 X0 (u1_compos_1 k1_scmfsa_2)) \wedge ((v1_funct_1 X0) \wedge (v1_finset_1 X0)))))) \Rightarrow (\forall X1. ((v1_ami_2 X1) \wedge (m1_subset_1 X1 (u1_struct_0 k1_scmfsa_2))) \Rightarrow ((r2_scmfsa7b X0 X1) \Leftrightarrow (\exists X2. (m1_subset_1 X2 (u1_compos_1 k1_scmfsa_2)) \wedge ((X2 \in k10_xtuple_0 X0) \wedge (r1_scmfsa7b X2 X1)))))) \quad (9)$$

Assume the following.

$$\forall X0. \forall X1. (X1 = k1_tarski X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (X2 = X0)) \quad (10)$$

Assume the following.

$$\forall X0. (l1_compos_1 X0) \Rightarrow (k4_compos_1 X0 = k3_afinsq_1 (k2_compos_1 X0)) \quad (11)$$

Theorem 1

$$\forall X0. ((v1_ami_2 X0) \wedge (m1_subset_1 X0 (u1_struct_0 k1_scmfsa_2))) \Rightarrow (\neg r2_scmfsa7b (k4_compos_1 k1_scmfsa_2) X0)$$