

t25_scmfsa_2

(TMXpKvccviPeuVnL3y2zApodcQA8FAG95XA)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $v1_ami_2 : \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k1_scmfsa_2 : \iota$ be given. Let $k2_compos_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_compos_1 : \iota \Rightarrow \iota$ be given. Let $k13_scmfsa_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_8 : \iota$ 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 $k4_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k1_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $l1_compos_1 : \iota \Rightarrow o$ 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 $k3_xtuple_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_ami_3 : \iota$ be given. Let $k9_ami_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k9_finseq_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$k5_numbers = k4_ordinal1 \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. (((\neg v1_xboole_0 X0) \wedge (v1_compos_0 X0)) \wedge (m1_subset_1 X1 X0)) \Rightarrow (k2_compos_0 X0 X1 = k4_xtuple_0 X1) \tag{2}$$

Assume the following.

$$\forall X0. \forall X1. k1_xtuple_0 (k4_tarski X0 X1) = X0 \tag{3}$$

Assume the following.

$$\forall X0. (l1_compos_1 X0) \Rightarrow ((v1_compos_0 (u1_compos_1 X0)) \wedge ((v2_compos_0 (u1_compos_1 X0)) \wedge ((v3_compos_0 (u1_compos_1 X0)) \wedge (v5_compos_0 (u1_compos_1 X0)))))) \tag{4}$$

Assume the following.

$$\forall X0. \forall X1. (l1_extpro_1 X1 X0) \Rightarrow ((l1_memstr_0 X1 X0) \wedge (l1_compos_1 X1)) \tag{5}$$

Assume the following.

$$(v1_extpro_1\ k1_scmfsa_2\ np_3) \wedge (l1_extpro_1\ k1_scmfsa_2\ np_3) \quad (6)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. ((m1_subset_1\ X0\ k5_numbers) \wedge ((v1_ami_2 \\ X1) \wedge (m1_subset_1\ X1\ (u1_struct_0\ k1_scmfsa_2)))) \Rightarrow (m1_subset_1 \\ (k13_scmfsa_2\ X0\ X1)\ (u1_compos_1\ k1_scmfsa_2)) \end{aligned} \quad (7)$$

Assume the following.

$$\forall X0. k4_xtuple_0\ X0 = k1_xtuple_0\ (k1_xtuple_0\ X0) \quad (8)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. \forall X2. k3_xtuple_0\ X0\ X1\ X2 = k4_tarSKI \\ (k4_tarSKI\ X0\ X1)\ X2 \end{aligned} \quad (9)$$

Assume the following.

$$\begin{aligned} \forall X0. (m1_subset_1\ X0\ k5_numbers) \Rightarrow (\forall X1. ((v1_ami_2 \\ X1) \wedge (m1_subset_1\ X1\ (u1_struct_0\ k1_scmfsa_2)))) \Rightarrow (\forall X2. \\ (m1_subset_1\ X2\ (u1_compos_1\ k1_scmfsa_2)) \Rightarrow ((X2 = k13_scmfsa_2 \\ X0\ X1) \Leftrightarrow (\exists X3. ((v1_ami_2\ X3) \wedge (m1_subset_1\ X3\ (u1_struct_0 \\ k1_ami_3)))) \wedge ((X1 = X3) \wedge (X2 = k9_ami_3\ X0\ X3)))))) \end{aligned} \quad (10)$$

Assume the following.

$$\begin{aligned} \forall X0. (v7_ordinal1\ X0) \Rightarrow (\forall X1. ((v1_ami_2\ X1) \wedge (m1_subset_1 \\ X1\ (u1_struct_0\ k1_ami_3)))) \Rightarrow (k9_ami_3\ X0\ X1 = k3_xtuple_0\ np_8 \\ (k9_finseq_1\ X0)\ (k9_finseq_1\ X1))) \end{aligned} \quad (11)$$

Assume the following.

$$\forall X0. (m1_subset_1\ X0\ k4_ordinal1) \Rightarrow (v7_ordinal1\ X0) \quad (12)$$

Assume the following.

$$\forall X0. (v5_compos_0\ X0) \Rightarrow (\neg v1_xboole_0\ X0) \quad (13)$$

Theorem 1

$$\begin{aligned} \forall X0. (m1_subset_1\ X0\ k5_numbers) \Rightarrow (\forall X1. ((v1_ami_2 \\ X1) \wedge (m1_subset_1\ X1\ (u1_struct_0\ k1_scmfsa_2)))) \Rightarrow (k2_compos_0 \\ (u1_compos_1\ k1_scmfsa_2)\ (k13_scmfsa_2\ X0\ X1) = np_8)) \end{aligned}$$