

l18_scmfsa_i (TM-
LEL7JFYWpKMwHggCBqoUrzWeLUbWKTtoQm)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_scmfsa_i : \iota$ be given. Let $k2_compos_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_9 : \iota$ be given. Let $np_10 : \iota$ be given. Let $k5_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k3_scm_inst : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $np_1 : \iota$ be given. Let $np_2 : \iota$ be given. Let $np_3 : \iota$ be given. Let $np_4 : \iota$ be given. Let $np_5 : \iota$ be given. Let $np_6 : \iota$ be given. Let $np_7 : \iota$ be given. Let $np_8 : \iota$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $k7_card_1 : \iota \Rightarrow \iota$ be given. Let $np_13 : \iota$ be given. Let $k2_scm_inst : \iota$ be given. Let $k1_scmfsa_i : \iota$ be given. Let $k3_xtuple_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k11_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_11 : \iota$ be given. Let $np_12 : \iota$ be given.

Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned}
& \forall X0.(m1_subset_1 X0 k2_scmfsa_i) \Rightarrow (\neg(\neg(X0 \in k3_scm_inst) \wedge \\
& (\neg(k2_compos_0 k2_scmfsa_i X0 \neq k6_numbers) \wedge ((k2_compos_0 k2_scmfsa_i \\
& X0 \neq np_1) \wedge ((k2_compos_0 k2_scmfsa_i X0 \neq np_2) \wedge ((k2_compos_0 \\
& k2_scmfsa_i X0 \neq np_3) \wedge ((k2_compos_0 k2_scmfsa_i X0 \neq np_4) \wedge \\
& ((k2_compos_0 k2_scmfsa_i X0 \neq np_5) \wedge ((k2_compos_0 k2_scmfsa_i \\
& X0 \neq np_6) \wedge ((k2_compos_0 k2_scmfsa_i X0 \neq np_7) \wedge (k2_compos_0 \\
& k2_scmfsa_i X0 \neq np_8)))))))))) \wedge (\neg(X0 \in ReplSep4 (toset (\lambda X1 : \\
& \iota.m2_subset_1 X1 k4_ordinal1 (k7_card_1 np_13))) (\lambda X1 : \\
& \iota.toset (\lambda X2 : \iota.m1_subset_1 X2 k2_scm_inst)) (\lambda X1 : \\
& \iota.\lambda X2 : \iota.toset (\lambda X3 : \iota.m1_subset_1 X3 k2_scm_inst)) \\
& (\lambda X1 : \iota.\lambda X2 : \iota.\lambda X3 : \iota.toset (\lambda X4 : \iota.m1_subset_1 \\
& X4 k1_scmfsa_i)) (\lambda X1 : \iota.\lambda X2 : \iota.\lambda X3 : \iota.\lambda X4 : \\
& \iota.X1 \in k2_tarski np_9 np_10) (\lambda X1 : \iota.\lambda X2 : \iota.\lambda X3 : \\
& \iota.\lambda X4 : \iota.k3_xtuple_0 X1 k1_xboole_0 (k11_finseq_1 X2 X4 \\
& X3))) \wedge ((k2_compos_0 k2_scmfsa_i X0 = np_9) \vee (k2_compos_0 k2_scmfsa_i \\
& X0 = np_10))) \wedge (\neg(X0 \in ReplSep3 (toset (\lambda X1 : \iota.m2_subset_1 \\
& X1 k4_ordinal1 (k7_card_1 np_13))) (\lambda X1 : \iota.toset (\lambda X2 : \\
& \iota.m1_subset_1 X2 k2_scm_inst)) (\lambda X1 : \iota.\lambda X2 : \iota.toset \\
& (\lambda X3 : \iota.m1_subset_1 X3 k1_scmfsa_i)) (\lambda X1 : \iota.\lambda X2 : \\
& \iota.\lambda X3 : \iota.X1 \in k2_tarski np_11 np_12) (\lambda X1 : \iota.\lambda X2 : \\
& \iota.\lambda X3 : \iota.k3_xtuple_0 X1 k1_xboole_0 (k10_finseq_1 X2 X3))) \wedge \\
& ((k2_compos_0 k2_scmfsa_i X0 = np_11) \vee (k2_compos_0 k2_scmfsa_i \\
& X0 = np_12))))))
\end{aligned} \tag{1}$$

Assume the following.

$$\neg v1_xboole_0 np_9 \tag{2}$$

Assume the following.

$$\neg v1_xboole_0 np_10 \tag{3}$$

Assume the following.

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

Assume the following.

$$\begin{aligned}
& \forall X0.\forall X1.\forall X2.k5_xtuple_0 (k3_xtuple_0 X0 \\
& X1 X2) = X1
\end{aligned} \tag{5}$$

Assume the following.

$$v1_xboole_0 k1_xboole_0 \tag{6}$$

Theorem 1

$$\begin{aligned}
& \forall X0.(m1_subset_1 X0 k2_scmfsa_i) \Rightarrow (((k2_compos_0 k2_scmfsa_i \\
& X0 = np_9) \vee (k2_compos_0 k2_scmfsa_i X0 = np_10)) \Rightarrow (k5_xtuple_0 \\
& X0 = k1_xboole_0))
\end{aligned}$$