

t1_scm_inst (TMP-
khRJoq8QtzYVTUt4azhSmGBrT4ApqBwn)

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Let $k3_xtuple_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k3_scm_inst : \iota$ be given. Let $k1_scm_inst : \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7_card_1 : \iota \Rightarrow \iota$ be given. Let $np_9 : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $k12_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_6 : \iota$ be given. Let $k2_scm_inst : \iota$ be given. Let $k7_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_7 : \iota$ be given. Let $np_8 : \iota$ be given. Let $k2_finseq_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ 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. Assume the following.

$$k6_numbers = k1_xboole_0 \tag{1}$$

Assume the following.

$$k1_scm_inst = k1_xboole_0 \tag{2}$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (X2 = k2_xboole_0 X0 X1) \Leftrightarrow (\forall X3. (X3 \in X2) \Leftrightarrow ((X3 \in X0) \vee (X3 \in X1))) \tag{3}$$

Assume the following.

$$\begin{aligned}
& k3_scm_inst = k2_xboole_0 (k2_xboole_0 (k2_xboole_0 (k1_tarSKI \\
& (k3_xtuple_0 k1_scm_inst k1_xboole_0 k1_xboole_0)) (ReplSep2 \\
& (toset (\lambda X0 : \iota.m1_subset_1 X0 (k7_card_1 np_9))) (\lambda X0 : \\
& \iota.toset (\lambda X1 : \iota.m1_subset_1 X1 k5_numbers)) (\lambda X0 : \iota. \\
& \lambda X1 : \iota.X0 = np_6) (\lambda X0 : \iota.\lambda X1 : \iota.k3_xtuple_0 X0 \\
& (k12_finseq_1 k5_numbers X1) k1_xboole_0))) (ReplSep3 (toset \\
& (\lambda X0 : \iota.m1_subset_1 X0 (k7_card_1 np_9))) (\lambda X0 : \iota. \\
& toset (\lambda X1 : \iota.m1_subset_1 X1 k5_numbers)) (\lambda X0 : \iota.\lambda X1 : \\
& \iota.toset (\lambda X2 : \iota.m1_subset_1 X2 k2_scm_inst)) (\lambda X0 : \iota. \\
& \iota.\lambda X1 : \iota.\lambda X2 : \iota.X0 \in k7_domain_1 k5_numbers np_7 \\
& np_8) (\lambda X0 : \iota.\lambda X1 : \iota.\lambda X2 : \iota.k3_xtuple_0 X0 (k12_finseq_1 \\
& k5_numbers X1) (k12_finseq_1 k2_scm_inst X2))) (ReplSep3 (toset \\
& (\lambda X0 : \iota.m1_subset_1 X0 (k7_card_1 np_9))) (\lambda X0 : \iota. \\
& toset (\lambda X1 : \iota.m1_subset_1 X1 k2_scm_inst)) (\lambda X0 : \iota. \\
& \lambda X1 : \iota.toset (\lambda X2 : \iota.m1_subset_1 X2 k2_scm_inst)) (\\
& \lambda X0 : \iota.\lambda X1 : \iota.\lambda X2 : \iota.X0 \in k10_domain_1 k5_numbers \\
& np_1 np_2 np_3 np_4 np_5) (\lambda X0 : \iota.\lambda X1 : \iota.\lambda X2 : \\
& \iota.k3_xtuple_0 X0 k1_xboole_0 (k2_finseq_4 k2_scm_inst X1 X2)))
\end{aligned} \tag{4}$$

Assume the following.

$$\begin{aligned}
& \forall X0.\forall X1.(X1 = k1_tarSKI X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Leftrightarrow \\
& (X2 = X0))
\end{aligned} \tag{5}$$

Theorem 1 $k3_xtuple_0 k6_numbers k1_xboole_0 k1_xboole_0 \in k3_scm_inst.$