

l48_scmpds_2 (TMLijZQYh- sux5CHSPvUHuGBjDLGTK4NmWVU)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_compos_1 : \iota \Rightarrow \iota$ be given. Let $k1_scmpds_2 : \iota$ be given. Let $k7_card_1 : \iota \Rightarrow \iota$ be given. Let $np_15 : \iota$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_ami_2 : \iota$ be given. Let $k2_ami_2 : \iota$ be given. Let $k4_numbers : \iota$ be given. Let $k3_xtuple_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k7_finseq_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_9 : \iota$ be given. Let $np_10 : \iota$ be given. Let $np_11 : \iota$ be given. Let $np_12 : \iota$ be given. Let $np_13 : \iota$ be given. Let $k2_compos_0 : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $np_2 : \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (((\neg v1_xboole_0 X0) \wedge (v1_compos_0 X0)) \wedge (m1_subset_1 X1 X0)) \Rightarrow (k2_compos_0 X0 X1 = k4_xtuple_0 X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. k1_xtuple_0 (k4_tarski X0 X1) = X0 \quad (2)$$

Assume the following.

$$\forall X0. (l1_compos_1 X0) \Rightarrow ((v1_compos_0 (u1_compos_1 X0)) \wedge ((v2_compos_0 (u1_compos_1 X0)) \wedge ((v3_compos_0 (u1_compos_1 X0)) \wedge (v5_compos_0 (u1_compos_1 X0)))))) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (l1_extpro_1 X1 X0) \Rightarrow ((l1_memstr_0 X1 X0) \wedge (l1_compos_1 X1)) \quad (4)$$

Assume the following.

$$(v1_extpro_1 k1_scmpds_2 np_2) \wedge (l1_extpro_1 k1_scmpds_2 np_2) \quad (5)$$

Assume the following.

$$\forall X0.k4_xtuple_0 X0 = k1_xtuple_0 (k1_xtuple_0 X0) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.k3_xtuple_0 X0 X1 X2 = k4_tarski (k4_tarski X0 X1) X2 \quad (7)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.\forall X3.\forall X4.\forall X5. \\ (X5 = k3_enumset1 X0 X1 X2 X3 X4) \Leftrightarrow (\forall X6.(X6 \in X5) \Leftrightarrow (\neg(X6 \neq X0) \wedge \\ & ((X6 \neq X1) \wedge ((X6 \neq X2) \wedge ((X6 \neq X3) \wedge (X6 \neq X4)))))) \end{aligned} \quad (8)$$

Assume the following.

$$\forall X0.(v5_compos_0 X0) \Rightarrow (\neg v1_xboole_0 X0) \quad (9)$$

Theorem 1

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 (u1_compos_1 k1_scmpds_2)) \Rightarrow (\neg(X0 \in \\ & ReplSep5 (toset (\lambda X1 : \iota.m1_subset_1 X1 (k7_card_1 np_15)))) \\ & (\lambda X1 : \iota.toset (\lambda X2 : \iota.m2_subset_1 X2 k1_ami_2 k2_ami_2)) \\ & (\lambda X1 : \iota.\lambda X2 : \iota.toset (\lambda X3 : \iota.m2_subset_1 X3 k1_ami_2 \\ & k2_ami_2)) (\lambda X1 : \iota.\lambda X2 : \iota.\lambda X3 : \iota.toset (\lambda X4 : \\ & \iota.m1_subset_1 X4 k4_numbers)) (\lambda X1 : \iota.\lambda X2 : \iota.\lambda X3 : \\ & \iota.\lambda X4 : \iota.toset (\lambda X5 : \iota.m1_subset_1 X5 k4_numbers)) \\ & (\lambda X1 : \iota.\lambda X2 : \iota.\lambda X3 : \iota.\lambda X4 : \iota.\lambda X5 : \iota. \\ & X1 \in k3_enumset1 np_9 np_10 np_11 np_12 np_13) (\lambda X1 : \iota. \\ & \lambda X2 : \iota.\lambda X3 : \iota.\lambda X4 : \iota.\lambda X5 : \iota.k3_xtuple_0 \\ & X1 k1_xboole_0 (k7_finseq_4 X2 X3 X4 X5))) \wedge ((k2_compos_0 (u1_compos_1 \\ & k1_scmpds_2) X0 \neq np_9) \wedge ((k2_compos_0 (u1_compos_1 k1_scmpds_2) \\ & X0 \neq np_10) \wedge ((k2_compos_0 (u1_compos_1 k1_scmpds_2) X0 \neq np_11) \wedge \\ & ((k2_compos_0 (u1_compos_1 k1_scmpds_2) X0 \neq np_12) \wedge (k2_compos_0 \\ & (u1_compos_1 k1_scmpds_2) X0 \neq np_13)))))) \end{aligned}$$