

t18_amistd_1

(TMK1w5rayBoW77qVTiRD5Ac6tV3a8qaYsbQ)

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Let $v1_setfam_1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_compos_1 : \iota \Rightarrow \iota$ be given. Let $k1_extpro_1 : \iota \Rightarrow \iota$ be given. Let $k2_compos_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k1_compos_1 : \iota$ be given. Let $v13_struct_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $v1_extpro_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $l1_extpro_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_compos_1 : \iota \Rightarrow o$ be given. Let $l1_compos_1 : \iota \Rightarrow o$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k3_xtuple_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k6_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_numbers : \iota$ be given. Let $u2_struct_0 : \iota \Rightarrow \iota$ be given. Let $u1_memstr_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k16_funcop_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u2_memstr_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_funcop_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_extpro_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_partfun1 : \iota \Rightarrow \iota$ be given. Let $k4_card_3 : \iota \Rightarrow \iota$ be given. Let $k3_relat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(m1_subset_1 X0 (u1_compos_1 k1_compos_1)) \Rightarrow (k2_compos_0 (u1_compos_1 k1_compos_1) X0 = k6_numbers) \quad (1)$$

Assume the following.

$$\forall X0.(\neg v1_setfam_1 X0) \Rightarrow ((v13_struct_0 (k1_extpro_1 X0) np_1) \wedge (v1_extpro_1 (k1_extpro_1 X0) X0)) \quad (2)$$

Assume the following.

$$\forall X0.(\neg v1_setfam_1 X0) \Rightarrow ((v1_extpro_1 (k1_extpro_1 X0) X0) \wedge (l1_extpro_1 (k1_extpro_1 X0) X0)) \quad (3)$$

Assume the following.

$$(v1_compos_1 k1_compos_1) \wedge (l1_compos_1 k1_compos_1) \quad (4)$$

Assume the following.

$$\forall X0.((v1_compos_1 X0) \wedge (l1_compos_1 X0)) \Rightarrow ((X0 = k1_compos_1) \Leftrightarrow (u1_compos_1 X0 = k1_tarski (k3_xtuple_0 k6_numbers k1_xboole_0 k1_xboole_0))) \quad (5)$$

Assume the following.

$$\begin{aligned}
& \forall X0.(\neg v1_setfam_1 X0) \Rightarrow (\forall X1.((v1_extpro_1 X1 X0) \wedge \\
& (l1_extpro_1 X1 X0)) \Rightarrow ((X1 = k1_extpro_1 X0) \Leftrightarrow ((u1_struct_0 X1 = \\
& k6_domain_1 k5_numbers k6_numbers) \wedge ((u2_struct_0 X1 = k6_numbers) \wedge \\
& ((u1_compos_1 X1 = k1_tarski (k3_xtuple_0 k6_numbers k1_xboole_0 \\
& k1_xboole_0)) \wedge ((u1_memstr_0 X0 X1 = k16_funcop_1 k6_numbers k6_numbers) \wedge \\
& ((u2_memstr_0 X0 X1 = k7_funcop_1 X0 k5_numbers) \wedge (u1_extpro_1 \\
& X0 X1 = k16_funcop_1 (k3_xtuple_0 k6_numbers k1_xboole_0 k1_xboole_0) \\
& (k6_partfun1 (k4_card_3 (k3_relat_1 (k16_funcop_1 k6_numbers \\
& k6_numbers) (k7_funcop_1 X0 k5_numbers))))))))))))) \\
& \tag{6}
\end{aligned}$$

Theorem 1

$$\begin{aligned}
& \forall X0.(\neg v1_setfam_1 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (u1_compos_1 \\
& (k1_extpro_1 X0))) \Rightarrow (k2_compos_0 (u1_compos_1 (k1_extpro_1 X0)) \\
& X1 = k6_numbers))
\end{aligned}$$