

t32_scmbstort (TMZubBu- upFWayJUs6zZCcMmhJJd4mvrGNHo)

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Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $v5_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_compos_1 : \iota \Rightarrow \iota$ be given. Let $k1_scmf_sa_2 : \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $v1_afinsq_1 : \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $v5_funct_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_memstr_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_3 : \iota$ be given. Let $v1_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_sf_mastr : \iota \Rightarrow \iota$ be given. Let $k2_sf_mastr : \iota \Rightarrow \iota$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k3_scmf_sa_2 : \iota$ be given. Let $k1_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_scmf_sa_2 : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. ((r1_tarski X0 X1) \wedge (r1_tarski X2 X1)) \Rightarrow (r1_tarski (k2_xboole_0 X0 X2) X1) \quad (1)$$

Assume the following.

$$\forall X0. ((v1_relat_1 X0) \wedge ((v4_relat_1 X0 (u1_struct_0 k1_scmf_sa_2)) \wedge ((v1_funct_1 X0) \wedge ((v5_funct_1 X0 (k2_memstr_0 np_3 k1_scmf_sa_2)) \wedge (v1_partfun1 X0 (u1_struct_0 k1_scmf_sa_2)))))) \Rightarrow (r1_tarski k3_scmf_sa_2 (k1_relset_1 (u1_struct_0 k1_scmf_sa_2) X0)) \quad (2)$$

Assume the following.

$$\forall X0. ((v1_relat_1 X0) \wedge ((v4_relat_1 X0 (u1_struct_0 k1_scmf_sa_2)) \wedge ((v1_funct_1 X0) \wedge ((v5_funct_1 X0 (k2_memstr_0 np_3 k1_scmf_sa_2)) \wedge (v1_partfun1 X0 (u1_struct_0 k1_scmf_sa_2)))))) \Rightarrow (r1_tarski k2_scmf_sa_2 (k1_relset_1 (u1_struct_0 k1_scmf_sa_2) X0)) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((r1_tarSKI X0 X1)\wedge(r1_tarSKI X1 X2))\Rightarrow(r1_tarSKI X0 X2) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.((v1_relat_1 X1)\wedge(v4_relat_1 X1 X0))\Rightarrow(k1_relset_1 X0 X1 = k9_xtuple_0 X1) \quad (6)$$

Assume the following.

$$\forall X0.((v1_relat_1 X0)\wedge(v1_funct_1 X0))\Rightarrow(m1_subset_1 (k4_sf_mastr X0) (k1_zfmisc_1 k3_scmfSA_2)) \quad (7)$$

Assume the following.

$$\forall X0.((v1_relat_1 X0)\wedge(v1_funct_1 X0))\Rightarrow(m1_subset_1 (k2_sf_mastr X0) (k1_zfmisc_1 k2_scmfSA_2)) \quad (8)$$

Theorem 1

$$\begin{aligned} & \forall X0.((v1_relat_1 X0)\wedge((v4_relat_1 X0 k5_numbers)\wedge((v5_relat_1 \\ & X0 (u1_compos_1 k1_scmfSA_2))\wedge((v1_funct_1 X0)\wedge((\neg v1_xboole_0 \\ & X0)\wedge((v1_finset_1 X0)\wedge(v1_afinsq_1 X0))))))\Rightarrow(\forall X1.(\\ & (v1_relat_1 X1)\wedge((v4_relat_1 X1 (u1_struct_0 k1_scmfSA_2))\wedge \\ & ((v1_funct_1 X1)\wedge((v5_funct_1 X1 (k2_memstr_0 np_3 k1_scmfSA_2))\wedge \\ & (v1_partfun1 X1 (u1_struct_0 k1_scmfSA_2))))))\Rightarrow(r1_tarSKI (\\ & k2_xboole_0 (k4_sf_mastr X0) (k2_sf_mastr X0) (k9_xtuple_0 X1))) \end{aligned}$$