

t59_sf_mastr

(TMLb74B7JPNrYnZKwvzXJcoD6WMTvnppmFb)

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Let $v1_ami_2 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k1_scmf_sa_2 : \iota$ be given. Let $m1_scmf_sa_2 : \iota \Rightarrow o$ be given. 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 $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $k16_scmf_sa_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k17_scmf_sa_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_sf_mastr : \iota \Rightarrow \iota$ be given. Let $k4_sf_mastr : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_sf_mastr : \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0. (& (v1_relat_1 X0) \wedge ((v4_relat_1 X0 k5_numbers) \wedge ((v5_relat_1 \\ & X0 (u1_compos_1 k1_scmf_sa_2)) \wedge ((v1_funct_1 X0) \wedge (v1_finset_1 \\ & X0)))))) \Rightarrow (\neg k6_sf_mastr X0 \in k4_sf_mastr X0) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. (& (m1_subset_1 X0 (u1_compos_1 k1_scmf_sa_2)) \Rightarrow (\forall X1. \\ & ((v1_relat_1 X1) \wedge ((v4_relat_1 X1 k5_numbers) \wedge ((v5_relat_1 X1 \\ & (u1_compos_1 k1_scmf_sa_2)) \wedge ((v1_funct_1 X1) \wedge (v1_finset_1 X1)))))) \Rightarrow \\ & ((X0 \in k2_relset_1 (u1_compos_1 k1_scmf_sa_2) X1) \Rightarrow (r1_tarski (\\ & k3_sf_mastr X0) (k4_sf_mastr X1)))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0. (& (v1_ami_2 X0) \wedge (m1_subset_1 X0 (u1_struct_0 k1_scmf_sa_2))) \Rightarrow \\ & (\forall X1. (m1_scmf_sa_2 X1) \Rightarrow (\forall X2. (m1_subset_1 X2 (u1_compos_1 \\ & k1_scmf_sa_2)) \Rightarrow (((X2 = k16_scmf_sa_2 X0 X1) \vee (X2 = k17_scmf_sa_2 X0 \\ & X1)) \Rightarrow (k3_sf_mastr X2 = k1_tarski X1)))) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarski (k1_tarski X0) X1) \Leftrightarrow (X0 \in X1) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.(((v1_ami_2 X0)\wedge(m1_subset_1 X0 (u1_struct_0 k1_scmf_sa_2)))\wedge(m1_scmf_sa_2 X1))\Rightarrow(m1_subset_1 (k17_scmf_sa_2 X0 X1) (u1_compos_1 k1_scmf_sa_2)) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.(((v1_ami_2 X0)\wedge(m1_subset_1 X0 (u1_struct_0 k1_scmf_sa_2)))\wedge(m1_scmf_sa_2 X1))\Rightarrow(m1_subset_1 (k16_scmf_sa_2 X0 X1) (u1_compos_1 k1_scmf_sa_2)) \quad (6)$$

Theorem 1

$$\begin{aligned} &\forall X0.((v1_ami_2 X0)\wedge(m1_subset_1 X0 (u1_struct_0 k1_scmf_sa_2)))\Rightarrow \\ &\quad (\forall X1.(m1_scmf_sa_2 X1)\Rightarrow(\forall X2.((v1_relat_1 X2)\wedge \\ &(v4_relat_1 X2 k5_numbers)\wedge((v5_relat_1 X2 (u1_compos_1 k1_scmf_sa_2))\wedge \\ &\quad ((v1_funct_1 X2)\wedge(v1_finset_1 X2))))))\Rightarrow(\neg((k16_scmf_sa_2 X0 X1 \in \\ &\quad k2_relset_1 (u1_compos_1 k1_scmf_sa_2) X2)\vee(k17_scmf_sa_2 X0 X1 \in \\ &\quad k2_relset_1 (u1_compos_1 k1_scmf_sa_2) X2))\wedge(k6_sf_mastr X2 = \\ &\quad X1)))) \end{aligned}$$