

t6_scmfsa9a
(TMHjyafq7fYB59yGk5vFAE4rRmT6jemudcJ)

October 27, 2020

Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $k4_sf_mastr : \iota \Rightarrow \iota$ be given. Let $k1_scmfsa8a : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. 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 $k1_scmfsa_2 : \iota$ be given. Let $u1_compos_1 : \iota \Rightarrow \iota$ be given. Let $k2_compos_1 : \iota \Rightarrow \iota$ be given. Let $k6_scmfsa_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_scmfsa_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_scmfsa_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_scmfsa_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10_scmfsa_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k11_scmfsa_2 : \iota \Rightarrow \iota$ be given. Let $k12_scmfsa_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k13_scmfsa_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_sf_mastr : \iota \Rightarrow \iota$ be given. Let $k16_funcop_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned}
& \forall X0.((v1_ami_2 X0) \wedge (m1_subset_1 X0 (u1_struct_0 k1_scmfsa_2))) \Rightarrow \\
& (\forall X1.((v1_ami_2 X1) \wedge (m1_subset_1 X1 (u1_struct_0 k1_scmfsa_2))) \Rightarrow \\
& (\forall X2.(m2_subset_1 X2 k1_numbers k5_numbers) \Rightarrow (\forall X3. \\
& (m1_subset_1 X3 (u1_compos_1 k1_scmfsa_2)) \Rightarrow ((\neg(X3 \neq k2_compos_1 \\
& k1_scmfsa_2) \wedge ((X3 \neq k6_scmfsa_2 X0 X1) \wedge ((X3 \neq k7_scmfsa_2 X0 X1) \wedge \\
& ((X3 \neq k8_scmfsa_2 X0 X1) \wedge ((X3 \neq k9_scmfsa_2 X0 X1) \wedge ((X3 \neq k10_scmfsa_2 \\
& X0 X1) \wedge ((X3 \neq k11_scmfsa_2 X2) \wedge ((X3 \neq k12_scmfsa_2 X2 X0) \wedge (X3 \neq k13_scmfsa_2 \\
& X2 X0)))))))))) \Rightarrow (k3_sf_mastr X3 = k1_xboole_0))))))
\end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned}
& \forall X0.(m2_subset_1 X0 k1_numbers k5_numbers) \Rightarrow (\forall X1. \\
& (m1_subset_1 X1 (u1_compos_1 k1_scmfsa_2)) \Rightarrow (k4_sf_mastr (k16_funcop_1 \\
& X0 X1) = k3_sf_mastr X1))
\end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned}
& \forall X0. \forall X1. ((\neg v1_xboole_0 X0) \wedge ((\neg v1_xboole_0 X1) \wedge \\
& (m1_subset_1 X1 (k1_zfmisc_1 X0)))) \Rightarrow (\forall X2.(m2_subset_1 \\
& X2 X0 X1) \Leftrightarrow (m1_subset_1 X2 X1))
\end{aligned} \tag{3}$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (4)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (5)$$

Assume the following.

$$\exists X0.(m1_subset_1 X0 (u1_struct_0 k1_scmfsa_2)) \wedge (v1_ami_2 X0) \quad (6)$$

Assume the following.

$$(\neg v1_xboole_0 k4_ordinal1) \wedge (v3_ordinal1 k4_ordinal1) \quad (7)$$

Assume the following.

$$\neg v1_xboole_0 k1_numbers \quad (8)$$

Assume the following.

$$m2_subset_1 k6_numbers k1_numbers k5_numbers \quad (9)$$

Assume the following.

$$m1_subset_1 k5_numbers (k1_zfmisc_1 k1_numbers) \quad (10)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k5_numbers) \Rightarrow (m1_subset_1 (k11_scmfsa_2 X0) (u1_compos_1 k1_scmfsa_2)) \quad (11)$$

Assume the following.

$$\forall X0.(m2_subset_1 X0 k1_numbers k5_numbers) \Rightarrow (k1_scmfsa8a X0 = k16_funcop_1 k6_numbers (k11_scmfsa_2 X0)) \quad (12)$$

Theorem 1

$$\forall X0.(m2_subset_1 X0 k1_numbers k5_numbers) \Rightarrow (k4_sf_mastr (k1_scmfsa8a X0) = k1_xboole_0)$$