

t5_toprealb
(TMa7B4hAEKNBL8k1XMkxj56gBrX89udkxA1)

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Let $k1_pre_topc : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_topalg_2 : \iota$ be given. Let $k5_toprealb : \iota \Rightarrow \iota$ be given. Let $k2_subset_1 : \iota \Rightarrow \iota$ be given. Let $k1_numbers : \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k3_topmetr : \iota$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v1_pre_topc : \iota \Rightarrow o$ be given. Let $v2_pre_topc : \iota \Rightarrow o$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $l1_struct_0 : \iota \Rightarrow o$ be given. Let $v2_topalg_2 : \iota \Rightarrow o$ be given. Let $m1_pre_topc : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_struct_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$u1_struct_0 \ k3_topmetr = k1_numbers \quad (1)$$

Assume the following.

$$k2_topalg_2 = k3_topmetr \quad (2)$$

Assume the following.

$$(\neg v2_struct_0 \ k3_topmetr) \wedge ((v1_pre_topc \ k3_topmetr) \wedge (v2_pre_topc \ k3_topmetr)) \quad (3)$$

Assume the following.

$$\forall X0. (l1_pre_topc \ X0) \Rightarrow (l1_struct_0 \ X0) \quad (4)$$

Assume the following.

$$(v2_pre_topc \ k3_topmetr) \wedge (l1_pre_topc \ k3_topmetr) \quad (5)$$

Assume the following.

$$(v2_topalg_2 \ k2_topalg_2) \wedge (m1_pre_topc \ k2_topalg_2 \ k3_topmetr) \quad (6)$$

Assume the following.

$$\forall X0. m1_subset_1 \ (k2_subset_1 \ X0) \ (k1_zfmisc_1 \ X0) \quad (7)$$

Assume the following.

$$\begin{aligned} \forall X0.(l1_pre_topc\ X0) \Rightarrow (\forall X1.(m1_subset_1\ X1\ (k1_zfmisc_1 \\ (u1_struct_0\ X0))) \Rightarrow (\forall X2.((v1_pre_topc\ X2) \wedge (m1_pre_topc \\ X2\ X0)) \Rightarrow ((X2 = k1_pre_topc\ X0\ X1) \Leftrightarrow (k2_struct_0\ X2 = X1)))) \end{aligned} \quad (8)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ (k1_zfmisc_1\ k1_numbers)) \Rightarrow (k5_toprealb\ X0 = X0) \quad (9)$$

Assume the following.

$$\forall X0.k2_subset_1\ X0 = X0 \quad (10)$$

Assume the following.

$$\forall X0.(l1_struct_0\ X0) \Rightarrow (k2_struct_0\ X0 = u1_struct_0\ X0) \quad (11)$$

Theorem 1

$$k1_pre_topc\ k2_topalg_2\ (k5_toprealb\ (k2_subset_1\ k1_numbers)) = k2_topalg_2$$