

t55_topgen_1
(TMd8s8D8mJLgn27tssGsCvkw1gN5jU3r1Jr)

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Let $v2_tops_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k3_topmetr : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ 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 $k2_struct_0 : \iota \Rightarrow \iota$ be given. Let $l1_struct_0 : \iota \Rightarrow o$ be given. Let $k2_subset_1 : \iota \Rightarrow \iota$ be given. Assume the following.

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

Assume the following.

$$(\neg v2_struct_0 \ k3_topmetr) \wedge ((v1_pre_topc \ k3_topmetr) \wedge (v2_pre_topc \ k3_topmetr)) \quad (2)$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 \ X0) \wedge ((v2_pre_topc \ X0) \wedge (l1_pre_topc \ X0))) \Rightarrow (\neg v2_tops_1 \ (k2_struct_0 \ X0) \ X0) \quad (3)$$

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.

$$\forall X0. m1_subset_1 \ (k2_subset_1 \ X0) \ (k1_zfmisc_1 \ X0) \quad (6)$$

Assume the following.

$$\forall X0. k2_subset_1 \ X0 = X0 \quad (7)$$

Assume the following.

$$\forall X0. (l1_struct_0 \ X0) \Rightarrow (k2_struct_0 \ X0 = u1_struct_0 \ X0) \quad (8)$$

Theorem 1

$$(\neg v2_tops_1 \ k1_numbers \ k3_topmetr) \wedge (m1_subset_1 \ k1_numbers \ (k1_zfmisc_1 \ (u1_struct_0 \ k3_topmetr)))$$