

t54_topgen_1 (TMTZN- HHvqKSyNc9qBi3125k4K87MU7YFKkq)

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Let $v2_tops_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_borsuk_5 : \iota$ 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 $v1_tops_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_numbers : \iota$ be given. Let $k3_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2_pre_topc : \iota \Rightarrow o$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ be given. Assume the following.

$$(v1_tops_1\ k3_numbers\ k3_topmetr) \wedge (m1_subset_1\ k3_numbers\ (k1_zfmisc_1\ (u1_struct_0\ k3_topmetr))) \quad (1)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ (k1_zfmisc_1\ (u1_struct_0\ k3_topmetr))) \Rightarrow ((X0 = k1_borsuk_5) \Rightarrow (k3_subset_1\ (u1_struct_0\ k3_topmetr)\ X0 = k3_numbers)) \quad (2)$$

Assume the following.

$$m1_subset_1\ k1_borsuk_5\ (k1_zfmisc_1\ (u1_struct_0\ k3_topmetr)) \quad (3)$$

Assume the following.

$$(v2_pre_topc\ k3_topmetr) \wedge (l1_pre_topc\ k3_topmetr) \quad (4)$$

Assume the following.

$$\forall X0.(l1_pre_topc\ X0) \Rightarrow (\forall X1.(m1_subset_1\ X1\ (k1_zfmisc_1\ (u1_struct_0\ X0))) \Rightarrow ((v2_tops_1\ X1\ X0) \Leftrightarrow (v1_tops_1\ (k3_subset_1\ (u1_struct_0\ X0)\ X1)\ X0))) \quad (5)$$

Theorem 1

$$(v2_tops_1\ k1_borsuk_5\ k3_topmetr) \wedge (m1_subset_1\ k1_borsuk_5\ (k1_zfmisc_1\ (u1_struct_0\ k3_topmetr)))$$