

t51_topgen_1

(TMV3DnTDrxaKxE44ExbqrWmEbj9YkJHbAfz)

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Let $v1_tops_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_numbers : \iota$ 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 $k2_pre_topc : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2_pre_topc : \iota \Rightarrow o$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $c1_topgen_1 : \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 k3_topmetr))) \Rightarrow \\ & ((X0 = k3_numbers) \Rightarrow (k2_pre_topc k3_topmetr X0 = u1_struct_0 k3_topmetr)) \end{aligned} \quad (1)$$

Assume the following.

$$(v2_pre_topc k3_topmetr) \wedge (l1_pre_topc k3_topmetr) \quad (2)$$

Assume the following.

$$m1_subset_1 c1_topgen_1 (k1_zfmisc_1 (u1_struct_0 k3_topmetr)) \quad (3)$$

Assume the following.

$$c1_topgen_1 = k3_numbers \quad (4)$$

Assume the following.

$$\begin{aligned} & \forall X0.(l1_pre_topc X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 \\ & (u1_struct_0 X0))) \Rightarrow ((v1_tops_1 X1 X0) \Leftrightarrow (k2_pre_topc X0 X1 = u1_struct_0 \\ & X0))) \end{aligned} \quad (5)$$

Theorem 1

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