

t55_tex_2

(TMK11eC8K86hieXciSbqfwhp2Eh8e9m4qgA)

October 27, 2020

Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v2_pre_topc : \iota \Rightarrow o$ be given. Let $v3_tdlat_3 : \iota \Rightarrow o$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $v3_pre_topc : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v4_pre_topc : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3_tex_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_tops_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc X0))) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow ((v3_pre_topc X1 X0) \wedge (v3_tex_2 X1 X0)) \Rightarrow (v1_tops_1 X1 X0))) \quad (1)$$

Assume the following.

$$\forall X0.((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc X0))) \Rightarrow ((\neg(\neg v3_tdlat_3 X0) \wedge (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0)))) \Rightarrow (\neg(X1 \neq u1_struct_0 X0) \wedge ((v1_tops_1 X1 X0) \wedge (v3_pre_topc X1 X0)))) \wedge (\neg(\exists X1.(m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0)))) \wedge ((X1 \neq u1_struct_0 X0) \wedge ((v1_tops_1 X1 X0) \wedge (v3_pre_topc X1 X0)))) \wedge (v3_tdlat_3 X0))) \quad (2)$$

Assume the following.

$$\forall X0.((v2_pre_topc X0) \wedge (l1_pre_topc X0)) \Rightarrow ((v3_tdlat_3 X0) \Leftrightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow ((v4_pre_topc X1 X0) \Rightarrow (v3_pre_topc X1 X0)))) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 X0)) \Rightarrow ((v1_subset_1 X1 X0) \Leftrightarrow (X1 \neq X0)) \quad (4)$$

Theorem 1

$$\forall X0.((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge ((v3_tdlat_3 X0) \wedge (l1_pre_topc X0)))) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow (\neg((v3_pre_topc X1 X0) \vee (v4_pre_topc X1 X0)) \wedge ((v3_tex_2 X1 X0) \wedge (v1_subset_1 X1 (u1_struct_0 X0)))))$$