

t40_waybel_3
(TMJrU1LNH8igbQY8Bbswtt8ccZwQR5dWqei)

October 27, 2020

Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v2_pre_topc : \iota \Rightarrow o$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $v6_waybel_3 : \iota \Rightarrow o$ be given. Let $v8_pre_topc : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k2_yellow_1 : \iota \Rightarrow \iota$ be given. Let $u1_pre_topc : \iota \Rightarrow \iota$ be given. Let $r1_waybel_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_pre_topc : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2_compts_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v4_pre_topc : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((v2_pre_topc X0) \wedge (l1_pre_topc X0)) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow (\forall X2. \\ & (m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow (((v2_compts_1 \\ & X1 X0) \wedge ((r1_tarski X2 X1) \wedge (v4_pre_topc X2 X0))) \Rightarrow (v2_compts_1 \\ & X2 X0)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.(l1_pre_topc X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 \\ & (u1_struct_0 X0))) \Rightarrow (\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 \\ & (u1_struct_0 X0))) \Rightarrow (((v4_pre_topc X1 X0) \wedge (r1_tarski X2 X1)) \Rightarrow \\ & (r1_tarski (k2_pre_topc X0 X2) X1)))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc \\ & X0))) \Rightarrow ((v6_waybel_3 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 \\ & (k2_yellow_1 (u1_pre_topc X0)))) \Rightarrow (\forall X2.(m1_subset_1 X2 \\ & (u1_struct_0 (k2_yellow_1 (u1_pre_topc X0)))) \Rightarrow (\neg (r1_waybel_3 \\ & (k2_yellow_1 (u1_pre_topc X0)) X1 X2) \wedge (\forall X3.(m1_subset_1 \\ & X3 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow (\neg (r1_tarski X1 X3) \wedge ((r1_tarski \\ & X3 X2) \wedge (v2_compts_1 X3 X0)))))) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((r1_tarSKI X0 X1)\wedge(r1_tarSKI X1 X2))\Rightarrow(r1_tarSKI X0 X2) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.(((v2_pre_topc X0)\wedge(l1_pre_topc X0))\wedge(m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0))))\Rightarrow(v4_pre_topc (k2_pre_topc X0 X1) X0) \quad (6)$$

Assume the following.

$$\forall X0.((\neg v2_struct_0 X0)\wedge((v2_pre_topc X0)\wedge((v8_pre_topc X0)\wedge(l1_pre_topc X0))))\Rightarrow(\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0)))\Rightarrow((v2_compts_1 X1 X0)\Rightarrow(v4_pre_topc X1 X0))) \quad (7)$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0)\wedge((v2_pre_topc X0)\wedge(l1_pre_topc X0)))\Rightarrow(((v6_waybel_3 X0)\wedge(v8_pre_topc X0))\Rightarrow(\forall X1.(m1_subset_1 X1 (u1_struct_0 (k2_yellow_1 (u1_pre_topc X0))))\Rightarrow(\forall X2. \\ & (m1_subset_1 X2 (u1_struct_0 (k2_yellow_1 (u1_pre_topc X0))))\Rightarrow \\ & (\neg(r1_waybel_3 (k2_yellow_1 (u1_pre_topc X0)) X1 X2)\wedge(\forall X3. \\ & (m1_subset_1 X3 (k1_zfmisc_1 (u1_struct_0 X0)))\Rightarrow(\neg(X3 = X1)\wedge \\ & (r1_tarSKI (k2_pre_topc X0 X3) X2)\wedge(v2_compts_1 (k2_pre_topc X0 X3) X0)))))))) \end{aligned}$$