

t28_yellow19

(TMTj9yaHvkG3ZpXBAG6xBrcPvVqTMgTWxDU)

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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 $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $v4_pre_topc : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v2_waybel_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_yellow_1 : \iota \Rightarrow \iota$ be given. Let $k2_struct_0 : \iota \Rightarrow \iota$ be given. Let $v13_waybel_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3_waybel_7 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r2_waybel_7 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_waybel_7 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_pre_topc : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
& \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc \\
& X0))) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 \\
& X0))) \Rightarrow ((v4_pre_topc X1 X0) \Leftrightarrow (\forall X2.((\neg v1_xboole_0 X2) \wedge (\\
& (v1_subset_1 X2 (u1_struct_0 (k3_yellow_1 (k2_struct_0 X0)))) \wedge \\
& ((v2_waybel_0 X2 (k3_yellow_1 (k2_struct_0 X0))) \wedge ((v13_waybel_0 \\
& X2 (k3_yellow_1 (k2_struct_0 X0))) \wedge (m1_subset_1 X2 (k1_zfmisc_1 \\
& (u1_struct_0 (k3_yellow_1 (k2_struct_0 X0)))))))))) \Rightarrow ((X1 \in X2) \Rightarrow \\
& (\forall X3.(m1_subset_1 X3 (u1_struct_0 X0)) \Rightarrow ((r1_waybel_7 \\
& X0 X2 X3) \Rightarrow (X3 \in X1))))))
\end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc \\
& X0))) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 \\
& X0))) \Rightarrow (\forall X2.(m1_subset_1 X2 (u1_struct_0 X0)) \Rightarrow ((X2 \in k2_pre_topc \\
& X0 X1) \Leftrightarrow (\exists X3.((\neg v1_xboole_0 X3) \wedge ((v2_waybel_0 X3 (k3_yellow_1 \\
& (k2_struct_0 X0))) \wedge ((v13_waybel_0 X3 (k3_yellow_1 (k2_struct_0 \\
& X0))) \wedge ((v3_waybel_7 X3 (k3_yellow_1 (k2_struct_0 X0))) \wedge (m1_subset_1 \\
& X3 (k1_zfmisc_1 (u1_struct_0 (k3_yellow_1 (k2_struct_0 X0)))))))))) \wedge \\
& ((X1 \in X3) \wedge (r2_waybel_7 X0 X3 X2))))))
\end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc \\
& X0))) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 \\
& X0))) \Rightarrow (\forall X2.(m1_subset_1 X2 (u1_struct_0 X0)) \Rightarrow ((X2 \in k2_pre_topc \\
& X0 X1) \Leftrightarrow (\exists X3.((\neg v1_xboole_0 X3) \wedge ((v1_subset_1 X3 (u1_struct_0 \\
& (k3_yellow_1 (k2_struct_0 X0))) \wedge ((v2_waybel_0 X3 (k3_yellow_1 \\
& (k2_struct_0 X0))) \wedge ((v13_waybel_0 X3 (k3_yellow_1 (k2_struct_0 \\
& X0))) \wedge (m1_subset_1 X3 (k1_zfmisc_1 (u1_struct_0 (k3_yellow_1 \\
& (k2_struct_0 X0)))))))))) \wedge ((X1 \in X3) \wedge (r1_waybel_7 X0 X3 X2))))))
\end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned}
& \forall X0.(l1_pre_topc X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 \\
& (u1_struct_0 X0))) \Rightarrow (((v4_pre_topc X1 X0) \Rightarrow (k2_pre_topc X0 X1 = \\
& X1)) \wedge (((v2_pre_topc X0) \wedge (k2_pre_topc X0 X1 = X1)) \Rightarrow (v4_pre_topc \\
& X1 X0))))
\end{aligned} \tag{4}$$

Theorem 1

$$\begin{aligned}
& \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc \\
& X0))) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 \\
& X0))) \Rightarrow ((v4_pre_topc X1 X0) \Leftrightarrow (\forall X2.((\neg v1_xboole_0 X2) \wedge (\\
& (v2_waybel_0 X2 (k3_yellow_1 (k2_struct_0 X0))) \wedge ((v13_waybel_0 \\
& X2 (k3_yellow_1 (k2_struct_0 X0))) \wedge ((v3_waybel_7 X2 (k3_yellow_1 \\
& (k2_struct_0 X0))) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 \\
& (k3_yellow_1 (k2_struct_0 X0)))))))))) \Rightarrow ((X1 \in X2) \Rightarrow (\forall X3. \\
& (m1_subset_1 X3 (u1_struct_0 X0)) \Rightarrow ((r2_waybel_7 X0 X2 X3) \Rightarrow (X3 \in \\
& X1))))))
\end{aligned}$$