

l103_geomtrap

(TMH1Kz8LMP42HCXEk4YM2jLZrtY2td3Zv2W)

October 27, 2020

Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v3_geomtrap : \iota \Rightarrow o$ be given. Let $l1_analoaf : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k2_diraf : \iota \Rightarrow \iota$ be given. Let $r2_analoaf : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned}
& \forall X0. ((\neg v2_struct_0 X0) \wedge ((v3_geomtrap X0) \wedge (l1_analoaf \\
& \quad X0))) \Rightarrow (\forall X1. (m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2. \\
& \quad (m1_subset_1 X2 (u1_struct_0 X0)) \Rightarrow (\forall X3. (m1_subset_1 X3 \\
& \quad (u1_struct_0 X0)) \Rightarrow (\forall X4. (m1_subset_1 X4 (u1_struct_0 X0)) \Rightarrow \\
& \quad (\forall X5. (m1_subset_1 X5 (u1_struct_0 (k2_diraf X0))) \Rightarrow (\forall X6. \\
& \quad (m1_subset_1 X6 (u1_struct_0 (k2_diraf X0))) \Rightarrow (\forall X7. (m1_subset_1 \\
& \quad X7 (u1_struct_0 (k2_diraf X0))) \Rightarrow (\forall X8. (m1_subset_1 X8 (\\
& \quad u1_struct_0 (k2_diraf X0))) \Rightarrow (((X1 = X5) \wedge ((X2 = X6) \wedge ((X3 = X7) \wedge (\\
& \quad X4 = X8)))) \Rightarrow ((r2_analoaf (k2_diraf X0) X5 X6 X7 X8) \Leftrightarrow ((r2_analoaf \\
& \quad X0 X1 X2 X3 X4) \vee (r2_analoaf X0 X1 X2 X4 X3))))))))))
\end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned}
& \forall X0. ((\neg v2_struct_0 X0) \wedge ((v3_geomtrap X0) \wedge (l1_analoaf \\
& \quad X0))) \Rightarrow (\forall X1. (m1_subset_1 X1 (u1_struct_0 X0)) \Leftrightarrow (m1_subset_1 \\
& \quad X1 (u1_struct_0 (k2_diraf X0))))
\end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned}
& \forall X0. ((\neg v2_struct_0 X0) \wedge ((v3_geomtrap X0) \wedge (l1_analoaf \\
& \quad X0))) \Rightarrow (\forall X1. (m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2. \\
& \quad (m1_subset_1 X2 (u1_struct_0 X0)) \Rightarrow (r2_analoaf X0 X1 X2 X1 X2)))
\end{aligned} \tag{3}$$

Theorem 1

$$\begin{aligned}
& \forall X0. ((\neg v2_struct_0 X0) \wedge ((v3_geomtrap X0) \wedge (l1_analoaf \\
& \quad X0))) \Rightarrow (\forall X1. (m1_subset_1 X1 (u1_struct_0 (k2_diraf X0))) \Rightarrow \\
& \quad (\forall X2. (m1_subset_1 X2 (u1_struct_0 (k2_diraf X0))) \Rightarrow (r2_analoaf \\
& \quad (k2_diraf X0) X1 X2 X2 X1)))
\end{aligned}$$