

t6_conmetr
(TMHW7nGuzHj9WYRizNMfxvf38mw8SK79Kzt)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v3_analmetr : \iota \Rightarrow o$ be given. Let $l1_analmetr : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k3_analmetr : \iota \Rightarrow \iota$ be given. Let $r2_aff_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r2_analoaf : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v7_struct_0 : \iota \Rightarrow o$ be given. Let $v1_diraf : \iota \Rightarrow o$ be given. Let $l1_analoaf : \iota \Rightarrow o$ be given. Let $v1_aff_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_analoaf : \iota \Rightarrow o$ be given. Let $v2_diraf : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((\neg v7_struct_0 X0) \wedge ((v1_diraf X0) \wedge (l1_analoaf X0))) \Rightarrow \\ & (\forall X1.(m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2.(m1_subset_1 \\ & X2 (u1_struct_0 X0)) \Rightarrow (\forall X3.(m1_subset_1 X3 (k1_zfmisc_1 \\ & (u1_struct_0 X0)) \Rightarrow (((v1_aff_1 X3 X0) \wedge ((X1 \in X3) \wedge (X2 \in X3))) \Rightarrow (\\ & r2_aff_1 X0 X1 X2 X3)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge (l1_analmetr X0)) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2.(m1_subset_1 X2 \\ & (u1_struct_0 X0)) \Rightarrow (\forall X3.(m1_subset_1 X3 (u1_struct_0 X0)) \Rightarrow \\ & (\forall X4.(m1_subset_1 X4 (u1_struct_0 X0)) \Rightarrow (\forall X5.(m1_subset_1 \\ & X5 (u1_struct_0 (k3_analmetr X0))) \Rightarrow (\forall X6.(m1_subset_1 \\ & X6 (u1_struct_0 (k3_analmetr X0))) \Rightarrow (\forall X7.(m1_subset_1 \\ & X7 (u1_struct_0 (k3_analmetr X0))) \Rightarrow (\forall X8.(m1_subset_1 \\ & X8 (u1_struct_0 (k3_analmetr X0))) \Rightarrow (((X1 = X5) \wedge ((X2 = X6) \wedge ((X3 = \\ & X7) \wedge (X4 = X8)))) \Rightarrow ((r2_analoaf X0 X1 X2 X3 X4) \Leftrightarrow (r2_analoaf (k3_analmetr \\ & X0) X5 X6 X7 X8)))))))))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge (l1_analmetr X0)) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 (u1_struct_0 X0)) \Leftrightarrow (m1_subset_1 X1 (u1_struct_0 \\ & (k3_analmetr X0)))) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((\neg v7_struct_0 X0) \wedge ((v1_diraf X0) \wedge (l1_analoaf X0))) \Rightarrow \\
& (\forall X1.(m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2.(m1_subset_1 \\
& X2 (u1_struct_0 X0)) \Rightarrow (\forall X3.(m1_subset_1 X3 (u1_struct_0 \\
& X0)) \Rightarrow (\forall X4.(m1_subset_1 X4 (u1_struct_0 X0)) \Rightarrow (\forall X5. \\
& ((v1_aff_1 X5 X0) \wedge (m1_subset_1 X5 (k1_zfmisc_1 (u1_struct_0 X0)))) \Rightarrow \\
& (((r2_aff_1 X0 X1 X2 X5) \wedge (r2_aff_1 X0 X3 X4 X5)) \Rightarrow (r2_analoaf X0 X1 \\
& X2 X3 X4))))))
\end{aligned} \tag{4}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((\neg v7_struct_0 X0) \wedge ((v1_diraf X0) \wedge (l1_analoaf X0))) \Rightarrow \\
& (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow \\
& ((\exists X2.(m1_subset_1 X2 (u1_struct_0 X0)) \wedge (\exists X3.(\\
& m1_subset_1 X3 (u1_struct_0 X0)) \wedge (r2_aff_1 X0 X2 X3 X1))) \Rightarrow (v1_aff_1 \\
& X1 X0)))
\end{aligned} \tag{5}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((\neg v2_struct_0 X0) \wedge ((v3_analmetr X0) \wedge (l1_analmetr \\
& X0))) \Rightarrow ((\neg v7_struct_0 (k3_analmetr X0)) \wedge ((v1_analoaf (k3_analmetr \\
& X0)) \wedge ((v1_diraf (k3_analmetr X0)) \wedge (v2_diraf (k3_analmetr X0))))))
\end{aligned} \tag{6}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((\neg v2_struct_0 X0) \wedge (l1_analmetr X0)) \Rightarrow ((v1_analoaf \\
& (k3_analmetr X0)) \wedge (l1_analoaf (k3_analmetr X0)))
\end{aligned} \tag{7}$$

Theorem 1

$$\begin{aligned}
& \forall X0.((\neg v2_struct_0 X0) \wedge ((v3_analmetr X0) \wedge (l1_analmetr \\
& X0))) \Rightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2. \\
& (m1_subset_1 X2 (u1_struct_0 X0)) \Rightarrow (\forall X3.(m1_subset_1 X3 \\
& (u1_struct_0 X0)) \Rightarrow (\forall X4.(m1_subset_1 X4 (u1_struct_0 X0)) \Rightarrow \\
& (\forall X5.(m1_subset_1 X5 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow \\
& (\forall X6.(m1_subset_1 X6 (k1_zfmisc_1 (u1_struct_0 (k3_analmetr \\
& X0)))) \Rightarrow (\forall X7.(m1_subset_1 X7 (u1_struct_0 (k3_analmetr \\
& X0))) \Rightarrow (\forall X8.(m1_subset_1 X8 (u1_struct_0 (k3_analmetr \\
& X0)))) \Rightarrow (((X3 = X7) \wedge ((X4 = X8) \wedge ((X5 = X6) \wedge ((X1 \in X5) \wedge ((X2 \in X5) \wedge (r2_aff_1 \\
& (k3_analmetr X0) X7 X8 X6)))))) \Rightarrow (r2_analoaf X0 X3 X4 X1 X2))))))
\end{aligned}$$