

t13_conmetr1

(TMM4h7Y8CyuNMNYFvvSFuxxzpr2HTF58uyv)

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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 $v3_conmetr1 : \iota \Rightarrow o$ be given. Let $k3_analmetr : \iota \Rightarrow \iota$ be given. Let $v6_conmetr : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $v2_analmetr : \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $v4_analmetr : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_aff_1 : \iota \Rightarrow \iota \Rightarrow o$ 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 $v1_analoaf : \iota \Rightarrow o$ be given. Let $v1_diraf : \iota \Rightarrow o$ be given. Let $v2_diraf : \iota \Rightarrow o$ be given. Let $l1_analoaf : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. ((X0 \in X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X2))) \Rightarrow (m1_subset_1 X0 X2) \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. ((\neg v2_struct_0 X0) \wedge ((v2_analmetr X0) \wedge (l1_analmetr X0))) \Rightarrow (\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow (\forall X2. (m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 (k3_analmetr X0)))) \Rightarrow ((X1 = X2) \Rightarrow ((v4_analmetr X1 X0) \Leftrightarrow (v1_aff_1 X2 (k3_analmetr X0))))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge (l1_analmetr X0)) \Rightarrow (\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0))) \Leftrightarrow (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 (k3_analmetr X0)))) \quad (3)$$

Assume the following.

$$\begin{aligned}
& \forall X0.((\neg v2_struct_0 X0) \wedge (l1_analmetr X0)) \Rightarrow (\forall X1. \\
& (m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2.(m1_subset_1 X2 \\
& (u1_struct_0 X0)) \Rightarrow (\forall X3.(m1_subset_1 X3 (u1_struct_0 X0)) \Rightarrow \\
& (\forall X4.(m1_subset_1 X4 (u1_struct_0 X0)) \Rightarrow (\forall X5.(m1_subset_1 \\
& X5 (u1_struct_0 (k3_analmetr X0)) \Rightarrow (\forall X6.(m1_subset_1 \\
& X6 (u1_struct_0 (k3_analmetr X0)) \Rightarrow (\forall X7.(m1_subset_1 \\
& X7 (u1_struct_0 (k3_analmetr X0)) \Rightarrow (\forall X8.(m1_subset_1 \\
& X8 (u1_struct_0 (k3_analmetr X0)) \Rightarrow (((X1 = X5) \wedge ((X2 = X6) \wedge ((X3 = \\
& X7) \wedge (X4 = X8)))) \Rightarrow ((r2_analoaf X0 X1 X2 X3 X4) \Leftrightarrow (r2_analoaf (k3_analmetr \\
& X0) X5 X6 X7 X8)))))))))
\end{aligned} \tag{4}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((\neg v2_struct_0 X0) \wedge (l1_analmetr X0)) \Rightarrow (\forall X1. \\
& (m1_subset_1 X1 (u1_struct_0 X0)) \Leftrightarrow (m1_subset_1 X1 (u1_struct_0 \\
& (k3_analmetr X0)))
\end{aligned} \tag{5}$$

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.

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

Assume the following.

$$\begin{aligned}
& \forall X0.((\neg v2_struct_0 X0) \wedge ((v3_analmetr X0) \wedge (l1_analmetr \\
& X0))) \Rightarrow ((v6_conmetr X0) \Leftrightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 \\
& X0)) \Rightarrow (\forall X2.(m1_subset_1 X2 (u1_struct_0 X0)) \Rightarrow (\forall X3. \\
& (m1_subset_1 X3 (u1_struct_0 X0)) \Rightarrow (\forall X4.(m1_subset_1 X4 \\
& (u1_struct_0 X0)) \Rightarrow (\forall X5.(m1_subset_1 X5 (u1_struct_0 X0)) \Rightarrow \\
& (\forall X6.(m1_subset_1 X6 (u1_struct_0 X0)) \Rightarrow (\forall X7.(m1_subset_1 \\
& X7 (u1_struct_0 X0)) \Rightarrow (\forall X8.(m1_subset_1 X8 (u1_struct_0 \\
& X0)) \Rightarrow (\forall X9.(m1_subset_1 X9 (k1_zfmisc_1 (u1_struct_0 X0)) \Rightarrow \\
& (\forall X10.(m1_subset_1 X10 (k1_zfmisc_1 (u1_struct_0 X0)) \Rightarrow \\
& (((v4_analmetr X9 X0) \wedge ((v4_analmetr X10 X0) \wedge ((X1 \in X9) \wedge ((X3 \in X9) \wedge \\
& ((X5 \in X9) \wedge ((X7 \in X9) \wedge ((X2 \in X10) \wedge ((X4 \in X10) \wedge ((X6 \in X10) \wedge ((X8 \in X10) \wedge \\
& ((r2_analoaf X0 X3 X2 X7 X6) \wedge ((r2_analoaf X0 X2 X1 X6 X5) \wedge (r2_analoaf \\
& X0 X1 X4 X5 X8))))))))) \Rightarrow ((X4 \in X9) \vee ((X2 \in X9) \vee ((X6 \in X9) \vee ((X8 \in \\
& X9) \vee ((X1 \in X10) \vee ((X3 \in X10) \vee ((X5 \in X10) \vee ((X7 \in X10) \vee (r2_analoaf \\
& X0 X3 X4 X7 X8)))))))))
\end{aligned} \tag{8}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((\neg v7_struct_0 X0) \wedge ((v1_diraf X0) \wedge ((v2_diraf X0) \wedge \\
& (l1_analoaf X0))) \Rightarrow ((v3_conmetr1 X0) \Leftrightarrow (\forall X1.(m1_subset_1 \\
& X1 (u1_struct_0 X0)) \Rightarrow (\forall X2.(m1_subset_1 X2 (u1_struct_0 \\
& X0)) \Rightarrow (\forall X3.(m1_subset_1 X3 (u1_struct_0 X0)) \Rightarrow (\forall X4. \\
& (m1_subset_1 X4 (u1_struct_0 X0)) \Rightarrow (\forall X5.(m1_subset_1 X5 \\
& (u1_struct_0 X0)) \Rightarrow (\forall X6.(m1_subset_1 X6 (u1_struct_0 X0)) \Rightarrow \\
& (\forall X7.(m1_subset_1 X7 (u1_struct_0 X0)) \Rightarrow (\forall X8.(m1_subset_1 \\
& X8 (u1_struct_0 X0)) \Rightarrow (\forall X9.(m1_subset_1 X9 (k1_zfmisc_1 \\
& (u1_struct_0 X0)) \Rightarrow (\forall X10.(m1_subset_1 X10 (k1_zfmisc_1 \\
& (u1_struct_0 X0)) \Rightarrow (((v1_aff_1 X9 X0) \wedge ((v1_aff_1 X10 X0) \wedge ((X1 \in \\
& X9) \wedge ((X3 \in X9) \wedge ((X5 \in X9) \wedge ((X7 \in X9) \wedge ((X2 \in X10) \wedge ((X4 \in X10) \wedge ((X6 \in \\
& X10) \wedge ((X8 \in X10) \wedge ((r2_analoaf X0 X3 X2 X7 X6) \wedge ((r2_analoaf X0 X2 \\
& X1 X6 X5) \wedge (r2_analoaf X0 X1 X4 X5 X8)))))))))) \Rightarrow ((X4 \in X9) \vee ((X2 \in \\
& X9) \vee ((X6 \in X9) \vee ((X8 \in X9) \vee ((X1 \in X10) \vee ((X3 \in X10) \vee ((X5 \in X10) \vee ((X7 \in \\
& X10) \vee (r2_analoaf X0 X3 X4 X7 X8)))))))))))))
\end{aligned} \tag{9}$$

Assume the following.

$$\forall X0.(l1_analmetr X0) \Rightarrow (((\neg v2_struct_0 X0) \wedge (v3_analmetr X0)) \Rightarrow ((\neg v2_struct_0 X0) \wedge (v2_analmetr X0))) \tag{10}$$

Theorem 1

$$\forall X0.((\neg v2_struct_0 X0) \wedge ((v3_analmetr X0) \wedge (l1_analmetr X0))) \Rightarrow ((v3_conmetr1 (k3_analmetr X0)) \Leftrightarrow (v6_conmetr X0))$$