

t66_analmetr

(TMVyVi16LeimVJ9sbLyUNXVtCA28KkXd1MC)

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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 $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $r10_analmetr : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v7_struct_0 : \iota \Rightarrow o$ be given. Let $v1_diraf : \iota \Rightarrow o$ be given. Let $v2_diraf : \iota \Rightarrow o$ be given. Let $l1_analoaf : \iota \Rightarrow o$ be given. Let $v1_aff_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r5_aff_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2_analmetr : \iota \Rightarrow o$ be given. Let $r9_analmetr : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_analmetr : \iota \Rightarrow \iota$ be given. Let $r8_analmetr : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r6_analmetr : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v4_analmetr : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r7_analmetr : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $g1_analoaf : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_analoaf : \iota \Rightarrow o$ be given. Let $u1_analoaf : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((\neg v7_struct_0 X0) \wedge ((v1_diraf X0) \wedge ((v2_diraf X0) \wedge \\ & (l1_analoaf X0)))) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 \\ & (u1_struct_0 X0))) \Rightarrow (\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 \\ & (u1_struct_0 X0))) \Rightarrow (\neg(v1_aff_1 X1 X0) \wedge ((v1_aff_1 X2 X0) \wedge ((\neg r5_aff_1 \\ & X0 X1 X2) \wedge (\forall X3.(m1_subset_1 X3 (u1_struct_0 X0)) \Rightarrow (\neg(X3 \in \\ & X1) \wedge (X3 \in X2)))))))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_analmetr X0) \wedge (l1_analmetr \\ & X0))) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 \\ & X0))) \Rightarrow (\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 \\ & X0))) \Rightarrow (\forall X3.(m1_subset_1 X3 (k1_zfmisc_1 (u1_struct_0 \\ & X0))) \Rightarrow (((r10_analmetr X0 X1 X2) \wedge (r9_analmetr X0 X1 X3)) \Rightarrow (r10_analmetr \\ & X0 X3 X2)))))) \end{aligned} \tag{2}$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((X0 \in X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X2))) \Rightarrow (m1_subset_1 X0 X2) \tag{3}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_analmetr X0) \wedge (l1_analmetr \\
& X0))) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 \\
& X0))) \Rightarrow (\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 \\
& X0))) \Rightarrow (\forall X3.(m1_subset_1 X3 (k1_zfmisc_1 (u1_struct_0 \\
& (k3_analmetr X0)))) \Rightarrow (\forall X4.(m1_subset_1 X4 (k1_zfmisc_1 \\
& (u1_struct_0 (k3_analmetr X0)))) \Rightarrow (((X1 = X3) \wedge (X2 = X4)) \Rightarrow ((r8_analmetr \\
& X0 X1 X2) \Leftrightarrow (r5_aff_1 (k3_analmetr X0) X3 X4))))))
\end{aligned} \tag{4}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((\neg v2_struct_0 X0) \wedge (l1_analmetr X0)) \Rightarrow (\forall X1. \\
& (m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2.(m1_subset_1 X2 \\
& (u1_struct_0 X0)) \Rightarrow (\forall X3.(m1_subset_1 X3 (k1_zfmisc_1 (\\
& u1_struct_0 X0))) \Rightarrow (\forall X4.(m1_subset_1 X4 (k1_zfmisc_1 (\\
& u1_struct_0 X0))) \Rightarrow (((r6_analmetr X0 X1 X2 X3) \Rightarrow (v4_analmetr X3 \\
& X0)) \wedge ((r7_analmetr X0 X3 X4) \Rightarrow ((v4_analmetr X3 X0) \wedge (v4_analmetr \\
& X4 X0))))))
\end{aligned} \tag{5}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_analmetr X0) \wedge (l1_analmetr \\
& X0))) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 \\
& X0))) \Rightarrow (\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 \\
& (k3_analmetr X0)))) \Rightarrow ((X1 = X2) \Rightarrow ((v4_analmetr X1 X0) \Leftrightarrow (v1_aff_1 \\
& X2 (k3_analmetr X0))))))
\end{aligned} \tag{6}$$

Assume the following.

$$\begin{aligned}
& \forall X0.\forall X1.\forall X2.(((\neg v2_struct_0 X0) \wedge ((v2_analmetr \\
& X0) \wedge (l1_analmetr X0))) \wedge ((m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 \\
& X0))) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 X0)))))) \Rightarrow ((r10_analmetr \\
& X0 X1 X2) \Rightarrow (r10_analmetr X0 X2 X1))
\end{aligned} \tag{7}$$

Assume the following.

$$\begin{aligned}
& \forall X0.\forall X1.\forall X2.(((\neg v2_struct_0 X0) \wedge ((v2_analmetr \\
& X0) \wedge (l1_analmetr X0))) \wedge ((m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 \\
& X0))) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 X0)))))) \Rightarrow ((r9_analmetr \\
& X0 X1 X2) \Leftrightarrow (r8_analmetr X0 X1 X2))
\end{aligned} \tag{8}$$

Assume the following.

$$\begin{aligned}
& \forall X0.\forall X1.\forall X2.(((\neg v2_struct_0 X0) \wedge ((v2_analmetr \\
& X0) \wedge (l1_analmetr X0))) \wedge ((m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 \\
& X0))) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 X0)))))) \Rightarrow ((r10_analmetr \\
& X0 X1 X2) \Leftrightarrow (r7_analmetr X0 X1 X2))
\end{aligned} \tag{9}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(((\neg v2_struct_0 X0)\wedge((v2_analmetr X0)\wedge(l1_analmetr X0)))\wedge((m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0)))\wedge(m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 X0))))))\Rightarrow(\neg r10_analmetr X0 X1 X1)$$
(10)

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 (k2_zfmisc_1 X0 X0) (k2_zfmisc_1 X0 X0))))\Rightarrow(\forall X2.\forall X3.(g1_analoaf X0 X1 = g1_analoaf X2 X3)\Rightarrow((X0 = X2)\wedge(X1 = X3)))$$
(11)

Assume the following.

$$\forall X0.((\neg v2_struct_0 X0)\wedge((v3_analmetr X0)\wedge(l1_analmetr X0)))\Rightarrow((\neg v7_struct_0 (k3_analmetr X0))\wedge((v1_analoaf (k3_analmetr X0))\wedge((v1_diraf (k3_analmetr X0))\wedge(v2_diraf (k3_analmetr X0))))))$$
(12)

Assume the following.

$$\forall X0.\exists X1.m1_subset_1 X1 X0$$
(13)

Assume the following.

$$\forall X0.(l1_analoaf X0)\Rightarrow(m1_subset_1 (u1_analoaf X0) (k1_zfmisc_1 (k2_zfmisc_1 (k2_zfmisc_1 (u1_struct_0 X0) (u1_struct_0 X0)) (k2_zfmisc_1 (u1_struct_0 X0) (u1_struct_0 X0))))))$$
(14)

Assume the following.

$$\forall X0.((\neg v2_struct_0 X0)\wedge(l1_analmetr X0))\Rightarrow((v1_analoaf (k3_analmetr X0))\wedge(l1_analoaf (k3_analmetr X0)))$$
(15)

Assume the following.

$$\forall X0.((\neg v2_struct_0 X0)\wedge(l1_analmetr X0))\Rightarrow(k3_analmetr X0 = g1_analoaf (u1_struct_0 X0) (u1_analoaf X0))$$
(16)

Assume the following.

$$\forall X0.(l1_analmetr X0)\Rightarrow(((\neg v2_struct_0 X0)\wedge(v3_analmetr X0))\Rightarrow((\neg v2_struct_0 X0)\wedge(v2_analmetr X0)))$$
(17)

Assume the following.

$$\forall X0.(l1_analoaf X0)\Rightarrow((v1_analoaf X0)\Rightarrow(X0 = g1_analoaf (u1_struct_0 X0) (u1_analoaf X0)))$$
(18)

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge (v3_analmetr X0) \wedge (l1_analmetr \\ & X0)) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 \\ & X0)) \Rightarrow (\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 \\ & X0)) \Rightarrow (\neg(r10_analmetr X0 X1 X2) \wedge (\forall X3.(m1_subset_1 X3 (\\ & u1_struct_0 X0)) \Rightarrow (\neg(X3 \in X1) \wedge (X3 \in X2))))))) \end{aligned}$$