

t69_aff_4 (TM-
MVbk6gW6STSJ2yeFKTF5MeHDz48BtQeNn)

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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 $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $v1_aff_4 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_aff_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_aff_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
& \forall X0.((\neg v7_struct_0 X0) \wedge ((v1_diraf X0) \wedge (l1_analoaf X0))) \Rightarrow \\
& \quad (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow \\
& \quad (\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow \\
& \quad (\forall X3.(m1_subset_1 X3 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow \\
& \quad (((v1_aff_4 X1 X0) \wedge (v1_aff_4 X2 X0) \wedge (v1_aff_4 X3 X0))) \Rightarrow (((\neg (\\
& \quad r1_aff_4 X0 X1 X2) \wedge (r1_aff_4 X0 X2 X3)) \wedge (\neg (r1_aff_4 X0 X1 X2) \wedge (\\
& \quad r1_aff_4 X0 X3 X2)) \wedge (\neg (r1_aff_4 X0 X2 X1) \wedge (r1_aff_4 X0 X2 X3)) \wedge \\
& \quad (\neg (r1_aff_4 X0 X2 X1) \wedge (r1_aff_4 X0 X3 X2)))))) \vee (r1_aff_4 X0 X1 X3)))))) \\
& \hspace{15em} (1)
\end{aligned}$$

Assume the following.

$$\begin{aligned}
& \forall X0. \forall X1. \forall X2. (((\neg v7_struct_0 X0) \wedge ((v1_diraf \\
& X0) \wedge (l1_analoaf X0))) \wedge ((m1_subset_1 X1 (u1_struct_0 X0)) \wedge (m1_subset_1 \\
& X2 (k1_zfmisc_1 (u1_struct_0 X0)))))) \Rightarrow (m1_subset_1 (k3_aff_4 \\
& X0 X1 X2) (k1_zfmisc_1 (u1_struct_0 X0))) \\
& \hspace{15em} (2)
\end{aligned}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((\neg v7_struct_0 X0) \wedge ((v1_diraf X0) \wedge (l1_analoaf X0))) \Rightarrow \\
& \quad (\forall X1.(m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2.(m1_subset_1 \\
& X2 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow ((v1_aff_4 X2 X0) \Rightarrow (\forall X3. \\
& (m1_subset_1 X3 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow ((X3 = k3_aff_4 \\
& X0 X1 X2) \Leftrightarrow ((X1 \in X3) \wedge ((r1_aff_4 X0 X2 X3) \wedge (v1_aff_4 X3 X0)))))))) \\
& \hspace{15em} (3)
\end{aligned}$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v7_struct_0 X0) \wedge ((v1_diraf X0) \wedge (l1_analoaf X0))) \Rightarrow \\ & (\forall X1.(m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2.(m1_subset_1 \\ & X2 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow (\forall X3.(m1_subset_1 \\ & X3 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow (((v1_aff_4 X2 X0) \wedge ((v1_aff_4 \\ & X3 X0) \wedge (r1_aff_4 X0 X2 X3))) \Rightarrow (k3_aff_4 X0 X1 X2 = k3_aff_4 X0 X1 X3)))))) \end{aligned}$$