

t43_afproj (TMF-
DacBg7vrJCeBP9BSwa1MvmVvSpUdw6W8)

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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 $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $u2_incsp_1 : \iota \Rightarrow \iota$ be given. Let $k13_afproj : \iota \Rightarrow \iota$ be given. Let $v1_aff_4 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_aff_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $u1_incsp_1 : \iota \Rightarrow \iota$ be given. Let $r1_incsp_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_afproj : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r5_aff_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ 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.

$$\begin{aligned} \forall X0. (&(\neg v7_struct_0 X0) \wedge ((v1_diraf X0) \wedge (l1_analoaf X0))) \Rightarrow \\ &(\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow \\ &(\forall X2. (m1_subset_1 X2 (u1_incsp_1 (k13_afproj X0))) \Rightarrow (\forall X3. \\ &(m1_subset_1 X3 (u2_incsp_1 (k13_afproj X0))) \Rightarrow ((v1_aff_1 X1 \\ &X0) \wedge ((X2 = k5_afproj X0 X1) \wedge (X3 = k4_tarski X1 np_1))) \Rightarrow (r1_incsp_1 \\ &(k13_afproj X0) X2 X3)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0. (&(\neg v7_struct_0 X0) \wedge ((v1_diraf X0) \wedge (l1_analoaf X0))) \Rightarrow \\ &(\forall X1. (m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2. (m1_subset_1 \\ &X2 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow (\forall X3. (m1_subset_1 \\ &X3 (u1_incsp_1 (k13_afproj X0))) \Rightarrow (\forall X4. (m1_subset_1 X4 \\ &(u2_incsp_1 (k13_afproj X0))) \Rightarrow (((X1 = X3) \wedge (k4_tarski X2 np_1 = \\ &X4)) \Rightarrow ((r1_incsp_1 (k13_afproj X0) X3 X4) \Leftrightarrow ((v1_aff_1 X2 X0) \wedge (X1 \in \\ &X2)))))))))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned}
& \forall X0.((\neg v7_struct_0 X0) \wedge ((v1_diraf X0) \wedge (l1_analoaf X0))) \Rightarrow \\
& \quad (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow \\
& \quad (\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow \\
& \quad (\forall X3.(m1_subset_1 X3 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow \\
& \quad (\neg(v1_aff_4 X1 X0) \wedge ((v1_aff_1 X2 X0) \wedge ((v1_aff_1 X3 X0) \wedge ((r1_tarski \\
& X2 X1) \wedge ((r1_tarski X3 X1) \wedge ((\neg r5_aff_1 X0 X2 X3) \wedge (\forall X4.(m1_subset_1 \\
& X4 (u1_struct_0 X0)) \Rightarrow (\neg(X4 \in X2) \wedge (X4 \in X3))))))))))))) \Rightarrow
\end{aligned} \tag{4}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((\neg v7_struct_0 X0) \wedge ((v1_diraf X0) \wedge (l1_analoaf X0))) \Rightarrow \\
& \quad (\forall X1.(m1_subset_1 X1 (u1_incsp_1 (k13_afproj X0))) \Leftrightarrow (\neg \\
& \quad (\neg m1_subset_1 X1 (u1_struct_0 X0)) \wedge (\forall X2.(m1_subset_1 \\
& X2 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow (\neg(X1 = k5_afproj X0 X2) \wedge (v1_aff_1 \\
& X2 X0)))))) \Rightarrow
\end{aligned} \tag{5}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((\neg v7_struct_0 X0) \wedge ((v1_diraf X0) \wedge (l1_analoaf X0))) \Rightarrow \\
& \quad (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow \\
& \quad (\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow \\
& (((v1_aff_1 X1 X0) \wedge (v1_aff_1 X2 X0)) \Rightarrow ((k5_afproj X0 X1 = k5_afproj \\
& X0 X2) \Leftrightarrow (r5_aff_1 X0 X1 X2)))))) \Rightarrow
\end{aligned} \tag{6}$$

Theorem 1

$$\begin{aligned}
& \forall X0.((\neg v7_struct_0 X0) \wedge ((v1_diraf X0) \wedge (l1_analoaf X0))) \Rightarrow \\
& \quad (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow \\
& \quad (\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow \\
& \quad (\forall X3.(m1_subset_1 X3 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow \\
& \quad (\forall X4.(m1_subset_1 X4 (u2_incsp_1 (k13_afproj X0))) \Rightarrow (\forall X5. \\
& (m1_subset_1 X5 (u2_incsp_1 (k13_afproj X0))) \Rightarrow (\neg(v1_aff_4 X1 \\
& X0) \wedge ((v1_aff_1 X2 X0) \wedge ((v1_aff_1 X3 X0) \wedge ((r1_tarski X2 X1) \wedge ((\\
& r1_tarski X3 X1) \wedge ((X4 = k4_tarski X2 np_1) \wedge ((X5 = k4_tarski X3 np_1) \wedge \\
& (\forall X6.(m1_subset_1 X6 (u1_incsp_1 (k13_afproj X0))) \Rightarrow (\neg \\
& (r1_incsp_1 (k13_afproj X0) X6 X4) \wedge (r1_incsp_1 (k13_afproj X0) \\
& X6 X5)))))))))))))) \Rightarrow
\end{aligned}$$