

t37_afproj (TMY- ouBc3wKhrgGQBmCyFfG3fV4Do47BtsC9)

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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 $u1_incsp_1 : \iota \Rightarrow \iota$ be given. Let $k14_afproj : \iota \Rightarrow \iota$ be given. Let $k13_afproj : \iota \Rightarrow \iota$ be given. Let $u2_incsp_1 : \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $r1_incsp_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k5_afproj : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_afproj : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_aff_1 : \iota \Rightarrow \iota \Rightarrow o$ 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. Assume the following.

$$\begin{aligned}
& \forall X0.((\neg v7_struct_0 X0) \wedge ((v1_diraf X0) \wedge (l1_analoaf X0))) \Rightarrow \\
& \quad (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow \\
& \quad (\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow \\
& \quad (\forall X3.(m1_subset_1 X3 (u1_incsp_1 (k14_afproj X0))) \Rightarrow (\forall X4. \\
& \quad (m1_subset_1 X4 (u2_incsp_1 (k14_afproj X0))) \Rightarrow (((X3 = k5_afproj \\
& X0 X1) \wedge ((X4 = k6_afproj X0 X2) \wedge ((v1_aff_1 X1 X0) \wedge (v1_aff_4 X2 X0)))) \Rightarrow \\
& \quad ((r1_incsp_1 (k14_afproj X0) X3 X4) \Leftrightarrow (r1_aff_4 X0 X1 X2))))))))) \Rightarrow \\
& \quad (1)
\end{aligned}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((\neg v7_struct_0 X0) \wedge ((v1_diraf X0) \wedge (l1_analoaf X0))) \Rightarrow \\
& \quad (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow \\
& \quad (\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow \\
& \quad (\forall X3.(m1_subset_1 X3 (u1_incsp_1 (k13_afproj X0))) \Rightarrow (\forall X4. \\
& \quad (m1_subset_1 X4 (u2_incsp_1 (k13_afproj X0))) \Rightarrow (((X3 = k5_afproj \\
& X0 X1) \wedge ((X4 = k4_tarski (k6_afproj X0 X2) np_2) \wedge ((v1_aff_1 X1 X0) \wedge \\
& (v1_aff_4 X2 X0)))) \Rightarrow ((r1_incsp_1 (k13_afproj X0) X3 X4) \Leftrightarrow (r1_aff_4 \\
& X0 X1 X2))))))))) \Rightarrow \\
& \quad (2)
\end{aligned}$$

Assume the following.

$$\begin{aligned} & \forall X0.((\neg v7_struct_0 X0) \wedge ((v1_diraf X0) \wedge (l1_analoaf X0))) \Rightarrow \\ & (\forall X1.(m1_subset_1 X1 (u2_incsp_1 (k14_afproj X0))) \Leftrightarrow (\exists X2. \\ & (m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 X0))) \wedge ((X1 = k6_afproj \\ & X0 X2) \wedge (v1_aff_4 X2 X0)))) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} & \forall X0.((\neg v7_struct_0 X0) \wedge ((v1_diraf X0) \wedge (l1_analoaf X0))) \Rightarrow \\ & (\forall X1.(m1_subset_1 X1 (u1_incsp_1 (k14_afproj X0))) \Leftrightarrow (\exists X2. \\ & (m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 X0))) \wedge ((X1 = k5_afproj \\ & X0 X2) \wedge (v1_aff_1 X2 X0)))) \end{aligned} \tag{4}$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v7_struct_0 X0) \wedge ((v1_diraf X0) \wedge (l1_analoaf X0))) \Rightarrow \\ & (\forall X1.(m1_subset_1 X1 (u1_incsp_1 (k14_afproj X0))) \Rightarrow (\forall X2. \\ & (m1_subset_1 X2 (u1_incsp_1 (k13_afproj X0))) \Rightarrow (\forall X3.(m1_subset_1 \\ & X3 (u2_incsp_1 (k14_afproj X0))) \Rightarrow (\forall X4.(m1_subset_1 X4 \\ & (u2_incsp_1 (k13_afproj X0))) \Rightarrow (((X2 = X1) \wedge (X4 = k4_tarski X3 np_2)) \Rightarrow \\ & ((r1_incsp_1 (k14_afproj X0) X1 X3) \Leftrightarrow (r1_incsp_1 (k13_afproj X0) \\ & X2 X4))))))))) \end{aligned}$$