

t32_afproj

(TMK7LUFQZqFsV1XE9UwJte6k16xQTv734dy)

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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 $u1_incsp_1 : \iota \Rightarrow \iota$ be given. Let $k13_afproj : \iota \Rightarrow \iota$ be given. Let $u2_incsp_1 : \iota \Rightarrow \iota$ be given. Let $v1_aff_4 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r5_aff_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_afproj : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_afproj : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $r1_incsp_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_aff_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_aff_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r3_aff_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned}
& \forall X0. ((\neg v7_struct_0 X0) \wedge ((v1_diraf X0) \wedge (l1_analoaf X0))) \Rightarrow \\
& \quad (\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow \\
& \quad (\forall X2. (m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow \\
& \quad (((v1_aff_1 X1 X0) \wedge (v1_aff_4 X2 X0)) \Rightarrow ((r1_aff_4 X0 X1 X2) \Leftrightarrow (\exists X3. \\
& \quad (m1_subset_1 X3 (k1_zfmisc_1 (u1_struct_0 X0))) \wedge ((r1_tarski \\
& \quad X3 X2) \wedge ((r5_aff_1 X0 X1 X3) \vee (r5_aff_1 X0 X3 X1)))))))
\end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned}
& \forall X0. ((\neg v7_struct_0 X0) \wedge ((v1_diraf X0) \wedge (l1_analoaf X0))) \Rightarrow \\
& \quad (\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow \\
& \quad (\forall X2. (m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow \\
& \quad ((r3_aff_1 X0 X1 X2) \Rightarrow ((v1_aff_1 X1 X0) \wedge (v1_aff_1 X2 X0))))))
\end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned}
& \forall X0. ((\neg v7_struct_0 X0) \wedge ((v1_diraf X0) \wedge (l1_analoaf X0))) \Rightarrow \\
& \quad (\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow \\
& \quad (\forall X2. (m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow \\
& \quad (\forall X3. (m1_subset_1 X3 (u1_incsp_1 (k13_afproj X0))) \Rightarrow (\forall X4. \\
& \quad (m1_subset_1 X4 (u2_incsp_1 (k13_afproj X0))) \Rightarrow (((X3 = k5_afproj \\
& \quad X0 X1) \wedge ((X4 = k4_tarski (k6_afproj X0 X2) np_2) \wedge ((v1_aff_1 X1 X0) \wedge \\
& \quad (v1_aff_4 X2 X0)))) \Rightarrow ((r1_incsp_1 (k13_afproj X0) X3 X4) \Leftrightarrow (r1_aff_4 \\
& \quad X0 X1 X2))))))
\end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.(((\neg v7_struct_0 X0)\wedge((v1_diraf \\ & X0)\wedge(l1_analoaf X0))\wedge((m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 \\ & X0)))\wedge(m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 X0))))))\Rightarrow((r5_aff_1 \\ & X0 X1 X2)\Leftrightarrow(r3_aff_1 X0 X1 X2)) \end{aligned} \tag{4}$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v7_struct_0 X0)\wedge((v1_diraf X0)\wedge(l1_analoaf X0)))\Rightarrow \\ & (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0)))\Rightarrow \\ & (\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 X0)))\Rightarrow \\ & (\forall X3.(m1_subset_1 X3 (k1_zfmisc_1 (u1_struct_0 X0)))\Rightarrow \\ & (\forall X4.(m1_subset_1 X4 (u1_incsp_1 (k13_afproj X0)))\Rightarrow(\forall X5. \\ & (m1_subset_1 X5 (u2_incsp_1 (k13_afproj X0)))\Rightarrow(((v1_aff_4 X1 \\ & X0)\wedge((r1_tarski X2 X1)\wedge((r5_aff_1 X0 X3 X2)\wedge((X4 = k5_afproj X0 \\ & X3)\wedge(X5 = k4_tarski (k6_afproj X0 X1) np_2))))))\Rightarrow(r1_incsp_1 (\\ & k13_afproj X0) X4 X5)))))) \end{aligned}$$