

t47_afproj (TM-
PRX4bJLZ39xAZPjmVNMDXi1TGn3exh2g7)

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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 $v6_incsp_1 : \iota \Rightarrow o$ be given. Let $k14_afproj : \iota \Rightarrow \iota$ be given. Let $v1_incproj : \iota \Rightarrow o$ be given. Let $v2_incproj : \iota \Rightarrow o$ be given. Let $v3_incproj : \iota \Rightarrow o$ be given. Let $v4_incproj : \iota \Rightarrow o$ be given. Let $l1_incsp_1 : \iota \Rightarrow o$ be given. Let $v2_diraf : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_incsp_1 : \iota \Rightarrow \iota$ be given. Let $u2_incsp_1 : \iota \Rightarrow \iota$ be given. Let $r1_incsp_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $v1_aff_4 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_afproj : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((v6_incsp_1 X0) \wedge ((v1_incproj X0) \wedge ((v2_incproj X0) \wedge \\ & ((v3_incproj X0) \wedge ((v4_incproj X0) \wedge (l1_incsp_1 X0)))))) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 (u1_incsp_1 X0)) \Rightarrow (\exists X2.(m1_subset_1 X2 \\ & (u2_incsp_1 X0)) \wedge (\exists X3.(m1_subset_1 X3 (u2_incsp_1 X0)) \wedge \\ & (\exists X4.(m1_subset_1 X4 (u2_incsp_1 X0)) \wedge (r1_incsp_1 X0 \\ & X1 X2) \wedge ((r1_incsp_1 X0 X1 X3) \wedge (r1_incsp_1 X0 X1 X4) \wedge ((X2 \neq X3) \wedge \\ & ((X3 \neq X4) \wedge (X4 \neq X2)))))))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.((\neg v7_struct_0 X0) \wedge ((v1_diraf X0) \wedge (l1_analoaf X0))) \Rightarrow \\ & (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow \\ & (\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow \\ & (((\neg v7_struct_0 X0) \wedge ((v1_diraf X0) \wedge ((v2_diraf X0) \wedge (l1_analoaf \\ & X0)))) \wedge ((v1_aff_4 X1 X0) \wedge (v1_aff_4 X2 X0))) \Rightarrow (X1 = X2))) \end{aligned} \tag{2}$$

Assume the following.

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

Assume the following.

$$\begin{aligned} \forall X0.(l1_incsp_1 X0) \Rightarrow ((v2_incproj X0) \Leftrightarrow (\neg \forall X1.(m1_subset_1 \\ X1 (u1_incsp_1 X0)) \Rightarrow (\forall X2.(m1_subset_1 X2 (u2_incsp_1 X0)) \Rightarrow \\ (r1_incsp_1 X0 X1 X2)))) \end{aligned} \quad (4)$$

Theorem 1

$$\begin{aligned} \forall X0.((\neg v7_struct_0 X0) \wedge ((v1_diraf X0) \wedge (l1_analoaf X0))) \Rightarrow \\ (\neg((v6_incsp_1 (k14_afproj X0)) \wedge ((v1_incproj (k14_afproj X0)) \wedge \\ ((v2_incproj (k14_afproj X0)) \wedge (v3_incproj (k14_afproj X0)) \wedge \\ (v4_incproj (k14_afproj X0)) \wedge (l1_incsp_1 (k14_afproj X0)))))) \wedge \\ ((\neg v7_struct_0 X0) \wedge ((v1_diraf X0) \wedge (v2_diraf X0) \wedge (l1_analoaf \\ X0)))) \end{aligned}$$