

t19_afproj
(TMNXKZ2JMJy7x9U9emr4iLswAnztrxj1kF7)

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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 $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_afproj : \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ 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 $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_afproj : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_aff_4 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((\neg v7_struct_0 X0) \wedge ((v1_diraf X0) \wedge (l1_analoaf X0))) \Rightarrow \\ & (\forall X1.(X1 \in k8_afproj X0) \Leftrightarrow (\exists X2.(m1_subset_1 X2 (k1_zfmisc_1 \\ & (u1_struct_0 X0)))) \wedge ((X1 = k6_afproj X0 X2) \wedge (v1_aff_4 X2 X0))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.(k4_tarski X0 X1 \in k2_zfmisc_1 X2 (k1_tarski X3)) \Leftrightarrow ((X0 \in X2) \wedge (X1 = X3)) \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.(X2 = k2_zfmisc_1 X0 X1) \Leftrightarrow (\forall X3. \\ & (X3 \in X2) \Leftrightarrow (\exists X4.\exists X5.(X4 \in X0) \wedge ((X5 \in X1) \wedge (X3 = k4_tarski \\ & X4 X5)))) \end{aligned} \quad (3)$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v7_struct_0 X0) \wedge ((v1_diraf X0) \wedge (l1_analoaf X0))) \Rightarrow \\ & (\forall X1.(X1 \in k2_zfmisc_1 (k8_afproj X0) (k1_tarski np_2)) \Leftrightarrow \\ & (\exists X2.(m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 X0))) \wedge \\ & ((X1 = k4_tarski (k6_afproj X0 X2) np_2) \wedge (v1_aff_4 X2 X0)))) \end{aligned}$$