

t51_flang_1 (TM-
PuKY53Fmuw7bSxadRZyZWPFHjk3PHnPR6)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k3_catalan2 : \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k6_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (m1_subset_1 X2 (k1_zfmisc_1 \\ & (k3_catalan2 X0))) \Rightarrow (\forall X3. (v7_ordinal1 X3) \Rightarrow ((X1 \in k7_flang_1 \\ & X0 X2 (k2_xcmplx_0 X3 np_1)) \Rightarrow ((X1 \in k6_flang_1 X0 (k8_flang_1 X0 \\ & X2) X2) \wedge (X1 \in k6_flang_1 X0 X2 (k8_flang_1 X0 X2)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (2)$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k3_catalan2 \\ & X0))) \Rightarrow (\forall X2. (v7_ordinal1 X2) \Rightarrow ((r1_tarski (k7_flang_1 \\ & X0 X1 (k2_xcmplx_0 X2 np_1)) (k6_flang_1 X0 (k8_flang_1 X0 X1) X1)) \wedge \\ & (r1_tarski (k7_flang_1 X0 X1 (k2_xcmplx_0 X2 np_1)) (k6_flang_1 \\ & X0 X1 (k8_flang_1 X0 X1)))))) \end{aligned}$$