

t7_flgang_2 (TMdvZYdVw- Doj4kPhS8s2JuCNNPnCVm9j1La)

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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 $k8_afinsq_1 : \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k2_flang_1 : \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $k7_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_catalan2 : \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v7_ordinal1\ X0) \Rightarrow (r1_xxreal_0\ k6_numbers\ X0) \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.(m1_subset_1\ X1\ (k1_zfmisc_1\ (k3_catalan2 \\ & X0))) \Rightarrow (\forall X2.(v7_ordinal1\ X2) \Rightarrow ((k7_flang_1\ X0\ X1\ X2 = k4_flang_1 \\ & X0\ (k2_flang_1\ X0)) \Leftrightarrow ((X2 = k6_numbers) \vee (X1 = k4_flang_1\ X0\ (k2_flang_1 \\ & X0)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1\ X1\ (k3_catalan2\ X0)) \Rightarrow (k4_flang_1\ X0\ X1 = k1_tarski\ X1) \quad (3)$$

Assume the following.

$$\forall X0.k3_catalan2\ X0 = k8_afinsq_1\ X0 \quad (4)$$

Assume the following.

$$\forall X0.m1_subset_1\ (k2_flang_1\ X0)\ (k3_catalan2\ X0) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.(X1 = k1_tarski\ X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Leftrightarrow (X2 = X0)) \quad (6)$$

Theorem 1

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.(m1_subset_1\ X2\ (k1_zfmisc_1 \\ & (k8_afinsq_1\ X1))) \Rightarrow (\forall X3.(v7_ordinal1\ X3) \Rightarrow (\neg(X0 \in X2) \wedge \\ & ((X0 \neq k2_flang_1\ X1) \wedge ((\neg r1_xxreal_0\ X3\ k6_numbers) \wedge (k7_flang_1 \\ & X1\ X2\ X3 = k4_flang_1\ X1\ (k2_flang_1\ X1)))))) \end{aligned}$$