

t89_flang_2

(TMLBAQ1FM5Z2c2skLapKoAEfUkZ2DegcKjb)

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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 $k2_flang_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k2_flang_1 : \iota \Rightarrow \iota$ be given. Let $k3_catalan2 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.\forall X1.\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 \\ (k8_afinsq_1 X1))) \Rightarrow ((X0 \in k2_flang_2 X1 X2) \Leftrightarrow ((X0 = k2_flang_1 X1) \vee \\ (X0 \in X2))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0.k3_catalan2 X0 = k8_afinsq_1 X0 \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.(X1 = k1_tarski X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Leftrightarrow \\ (X2 = X0)) \tag{3}$$

Theorem 1

$$\begin{aligned} \forall X0.\forall X1.\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 \\ (k8_afinsq_1 X1))) \Rightarrow ((k2_flang_2 X1 X2 = k1_tarski X0) \Rightarrow (X0 = k2_flang_1 \\ X1)) \end{aligned}$$