

t52_flang_1

(TMPPvBDEHA6doXiuBRi9BLcLpjJ5dLupe78)

October 27, 2020

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 $k6_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k3_catalan2 \\ & X0))) \Rightarrow (\forall X2. (m1_subset_1 X2 (k1_zfmisc_1 (k3_catalan2 \\ & X0))) \Rightarrow (\forall X3. (m1_subset_1 X3 (k1_zfmisc_1 (k3_catalan2 \\ & X0))) \Rightarrow (((r1_tarski X1 (k8_flang_1 X0 X2)) \wedge (r1_tarski X3 (k8_flang_1 \\ & X0 X2))) \Rightarrow (r1_tarski (k6_flang_1 X0 X1 X3) (k8_flang_1 X0 X2)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k3_catalan2 X0))) \Rightarrow (r1_tarski X1 (k8_flang_1 X0 X1)) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k3_catalan2 X0))) \Rightarrow (m1_subset_1 (k8_flang_1 X0 X1) (k1_zfmisc_1 (k3_catalan2 X0))) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (4)$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (m1_subset_1 X2 (k1_zfmisc_1 \\ & (k3_catalan2 X0))) \Rightarrow (((X1 \in k6_flang_1 X0 (k8_flang_1 X0 X2) X2) \vee \\ & (X1 \in k6_flang_1 X0 X2 (k8_flang_1 X0 X2))) \Rightarrow (X1 \in k8_flang_1 X0 X2)) \end{aligned}$$