

t41_flang_1
(TMZyBPqTKC6vouzdiwc8NGkxYywM1gEusGa)

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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 $k8_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k7_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0 : \iota \Rightarrow o. \forall X1. \forall X2. (X2 \in ReplSep (toset (\lambda X3 : \iota. m1_subset_1 X3 X1)) (\lambda X3 : \iota. X0 X3) (\lambda X3 : \iota. X3))) \Rightarrow (X0 X2) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((m1_subset_1 X1 (k1_zfmisc_1 (k3_catalan2 X0))) \wedge (v7_ordinal1 X2)) \Rightarrow (m1_subset_1 (k7_flang_1 X0 X1 X2) (k1_zfmisc_1 (k3_catalan2 X0)))) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (X1 = k3_tarski X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (\exists X3. (X2 \in X3) \wedge (X3 \in X0))) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k3_catalan2 X0))) \Rightarrow (k8_flang_1 X0 X1 = k3_tarski (ReplSep (toset (\lambda X2 : \iota. m1_subset_1 X2 (k1_zfmisc_1 (k3_catalan2 X0)))) (\lambda X2 : \iota. \exists X3. (v7_ordinal1 X3) \wedge (X2 = k7_flang_1 X0 X1 X3)) (\lambda X2 : \iota. X2)))) \quad (4)$$

Theorem 1

$$\forall X0. \forall X1. \forall X2. (m1_subset_1 X2 (k1_zfmisc_1 (k3_catalan2 X0))) \Rightarrow ((X1 \in k8_flang_1 X0 X2) \Leftrightarrow (\exists X3. (v7_ordinal1 X3) \wedge (X1 \in k7_flang_1 X0 X2 X3)))$$