

t14_flang_3 (TMaNbHwfdVBZbKea- GrX1k6hrytNzp5PFCMh)

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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 $k1_flang_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_catalan2 : \iota \Rightarrow \iota$ be given. Let $k8_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k6_numbers : \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k3_catalan2 X0))) \Rightarrow (k2_flang_1 X0 \in k8_flang_1 X0 X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k3_catalan2 X0))) \Rightarrow ((k8_flang_1 X0 X1 = k4_flang_1 X0 (k2_flang_1 X0)) \Leftrightarrow ((X1 = k1_xboole_0) \vee (X1 = k4_flang_1 X0 (k2_flang_1 X0)))) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (m1_subset_1 X2 (k1_zfmisc_1 (k8_afinsq_1 X1))) \Rightarrow (\neg(X0 \in X2) \wedge ((X0 \neq k2_flang_1 X1) \wedge (k8_flang_1 X1 X2 = k4_flang_1 X1 (k2_flang_1 X1)))) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k8_afinsq_1 X0))) \Rightarrow (\forall X2. (v7_ordinal1 X2) \Rightarrow ((k1_flang_3 X0 X1 X2 = k8_flang_1 X0 X1) \Leftrightarrow ((k2_flang_1 X0 \in X1) \vee (X2 = k6_numbers)))) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k8_afinsq_1 X0))) \Rightarrow (\forall X2. (v7_ordinal1 X2) \Rightarrow ((k2_flang_1 X0 \in k1_flang_3 X0 X1 X2) \Leftrightarrow ((X2 = k6_numbers) \vee (k2_flang_1 X0 \in X1)))) \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k3_catalan2 X0)) \Rightarrow (m1_subset_1 (k4_flang_1 X0 X1) (k1_zfmisc_1 (k3_catalan2 X0))) \quad (6)$$

Assume the following.

$$\forall X0.m1_subset_1 (k2_flang_1 X0) (k3_catalan2 X0) \quad (7)$$

Theorem 1

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 \\ & (k8_afinsq_1 X1))) \Rightarrow (\forall X3.(v7_ordinal1 X3) \Rightarrow (\neg(X0 \in X2) \wedge \\ & ((X0 \neq k2_flang_1 X1) \wedge (k1_flang_3 X1 X2 X3 = k4_flang_1 X1 (k2_flang_1 \\ & X1)))))) \end{aligned}$$