

t94_flang_2 (TM-
Mdxz2SRX4wSQKG1jwXrVRmDZPG9BiBovh)

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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 $k7_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_flang_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_flang_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k2_flang_1 : \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k3_catalan2 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k8_afinsq_1 X0))) \Rightarrow (k2_flang_2 X0 (k2_flang_2 X0 X1) = k2_flang_2 X0 X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k8_afinsq_1 X0))) \Rightarrow ((k2_flang_2 X0 X1 = X1) \Leftrightarrow (k2_flang_1 X0 \in X1)) \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k8_afinsq_1 X0))) \Rightarrow (\forall X2. (v7_ordinal1 X2) \Rightarrow (\forall X3. (v7_ordinal1 X3) \Rightarrow (((k2_flang_1 X0 \in X1) \wedge (r1_xxreal_0 X2 X3)) \Rightarrow (k1_flang_2 X0 X1 X2 X3 = k7_flang_1 X0 X1 X3)))) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0. (v7_ordinal1 X0) \Rightarrow (r1_xxreal_0 k6_numbers X0) \quad (4)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (5)$$

Assume the following.

$$\forall X0. k3_catalan2 X0 = k8_afinsq_1 X0 \quad (6)$$

Assume the following.

$$v1_xboole_0 \ k1_xboole_0 \tag{7}$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 \ X1 \ (k1_zfmisc_1 \ (k8_afinsq_1 \ X0))) \Rightarrow (m1_subset_1 \ (k2_flang_2 \ X0 \ X1) \ (k1_zfmisc_1 \ (k8_afinsq_1 \ X0))) \tag{8}$$

Assume the following.

$$\forall X0.(v1_xboole_0 \ X0) \Rightarrow (v7_ordinal1 \ X0) \tag{9}$$

Theorem 1

$$\forall X0.\forall X1.(m1_subset_1 \ X1 \ (k1_zfmisc_1 \ (k8_afinsq_1 \ X0))) \Rightarrow (\forall X2.(v7_ordinal1 \ X2) \Rightarrow (k7_flang_1 \ X0 \ (k2_flang_2 \ X0 \ X1) \ X2 = k1_flang_2 \ X0 \ (k2_flang_2 \ X0 \ X1) \ k6_numbers \ X2))$$