

t65_flang_3 (TMG-
MXQQd9ZgAMHz3gwFBmMRN5pbJ6ewMzYs)

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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 $k2_flang_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_flang_1 : \iota \Rightarrow \iota$ be given. Let $k4_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k8_afinsq_1 X0))) \Rightarrow ((k2_flang_2 X0 (k8_flang_1 X0 X1) = k8_flang_1 X0 X1) \wedge (k8_flang_1 X0 (k2_flang_2 X0 X1) = k8_flang_1 X0 X1)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (m1_subset_1 X2 (k1_zfmisc_1 (k8_afinsq_1 X1))) \Rightarrow ((X0 \in k2_flang_2 X1 X2) \Leftrightarrow ((X0 = k2_flang_1 X1) \vee (X0 \in X2))) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k8_afinsq_1 X0))) \Rightarrow (k2_flang_2 X0 X1 = k4_subset_1 (k8_afinsq_1 X0) (k4_flang_1 X0 (k2_flang_1 X0)) X1) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k8_afinsq_1 X0))) \Rightarrow ((k2_flang_3 X0 X1 = k8_flang_1 X0 X1) \Leftrightarrow (k2_flang_1 X0 \in X1)) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k8_afinsq_1 X0))) \Rightarrow (k8_flang_1 X0 X1 = k4_subset_1 (k8_afinsq_1 X0) (k4_flang_1 X0 (k2_flang_1 X0)) (k2_flang_3 X0 X1)) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (k8_afinsq_1 X0)))\Rightarrow(m1_subset_1 (k2_flang_3 X0 X1) (k1_zfmisc_1 (k8_afinsq_1 X0))) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (k8_afinsq_1 X0)))\Rightarrow(m1_subset_1 (k2_flang_2 X0 X1) (k1_zfmisc_1 (k8_afinsq_1 X0))) \quad (7)$$

Theorem 1

$$\forall X0.\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (k8_afinsq_1 X0)))\Rightarrow((k2_flang_2 X0 (k2_flang_3 X0 X1) = k8_flang_1 X0 X1)\wedge(k2_flang_3 X0 (k2_flang_2 X0 X1) = k8_flang_1 X0 X1))$$