

t53_flang_3 (TMdy- HAKVM1AgHPchaaA2Yd2zabxdDwVbuu4)

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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 $k8_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota$ 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. Let $k2_flang_1 : \iota \Rightarrow \iota$ be given. Let $k2_flang_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_catalan2 : \iota \Rightarrow \iota$ be given. Let $k6_flang_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k3_catalan2 \\ X0))) \Rightarrow ((k8_flang_1 X0 X1 = k4_subset_1 (k3_catalan2 X0) (k4_flang_1 \\ X0 (k2_flang_1 X0)) (k6_flang_1 X0 X1 (k8_flang_1 X0 X1))) \wedge (k8_flang_1 \\ X0 X1 = k4_subset_1 (k3_catalan2 X0) (k4_flang_1 X0 (k2_flang_1 \\ X0)) (k6_flang_1 X0 (k8_flang_1 X0 X1) X1))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k8_afinsq_1 \\ X0))) \Rightarrow (k2_flang_3 X0 X1 = k6_flang_1 X0 (k8_flang_1 X0 X1) X1) \quad (2)$$

Assume the following.

$$\forall X0. k3_catalan2 X0 = k8_afinsq_1 X0 \quad (3)$$

Theorem 1

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