

t8_fsm_3

(TMUYb5gLHdc742TLR64nQp5J6Z5yFCCJeos)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k2_flang_1 : \iota \Rightarrow \iota$ be given. Let $k9_flang_1 : \iota \Rightarrow \iota$ be given. Let $k5_afinsq_1 : \iota \Rightarrow \iota$ be given. Let $k3_afinsq_1 : \iota \Rightarrow \iota$ be given. Let $k4_afinsq_1 : \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v5_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v5_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. 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. Assume the following.

$$\forall X0. k5_afinsq_1 X0 = k3_afinsq_1 X0 \quad (1)$$

Assume the following.

$$\forall X0. k2_flang_1 X0 = k4_afinsq_1 X0 \quad (2)$$

Assume the following.

$$\forall X0. (v1_relat_1 (k4_afinsq_1 X0)) \wedge ((v5_relat_1 (k4_afinsq_1 X0) X0) \wedge ((v5_ordinal1 (k4_afinsq_1 X0)) \wedge ((v1_funct_1 (k4_afinsq_1 X0)) \wedge ((v1_xboole_0 (k4_afinsq_1 X0)) \wedge (v1_finset_1 (k4_afinsq_1 X0))))))) \quad (3)$$

Assume the following.

$$\forall X0. \neg v1_xboole_0 (k3_afinsq_1 X0) \quad (4)$$

Assume the following.

$$\forall X0. m1_subset_1 (k9_flang_1 X0) (k1_zfmisc_1 (k3_catalan2 X0)) \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k3_catalan2 X0))) \Rightarrow ((X1 = k9_flang_1 X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (\exists X3. (m1_subset_1 X3 X0) \wedge ((X3 \in X0) \wedge (X2 = k5_afinsq_1 X3)))))) \quad (6)$$

Theorem 1 $\forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\neg k2_flang_1 X0 \in k9_flang_1 X0)$.