t5_flang_2 (TMGPioVbzn8iJiXiytFs7Dz79FGhK4Xu8tv)

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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 $k2\_flang\_1 : \iota \Rightarrow \iota$ be given. Let $k6\_flang\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_flang\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_catalan2 : \iota \Rightarrow \iota$ be given. Let $k1\_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k3\_catalan2\ X0))) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k3\_catalan2\ X0))) \Rightarrow ((k6\_flang\_1\ X0\ X1\ X2 = k4\_flang\_1\ X0\ (k2\_flang\_1\ X0)) \Leftrightarrow ((X1 = k4\_flang\_1\ X0\ (k2\_flang\_1\ X0)) \wedge (X2 = k4\_flang\_1\ X0\ (k2\_flang\_1\ X0))))) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X1\ (k3\_catalan2\ X0)) \Rightarrow (k4\_flang\_1\ X0\ X1 = k1\_tarski\ X1) \tag{2}$$

Assume the following.

$$\forall X0.k3\_catalan2\ X0 = k8\_afinsq\_1\ X0 \tag{3}$$

Assume the following.

$$\forall X0.m1\_subset\_1\ (k2\_flang\_1\ X0)\ (k3\_catalan2\ X0) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.(X1 = k1\_tarski\ X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Leftrightarrow (X2 = X0)) \tag{5}$$

Theorem 1

$$\forall X0.\forall X1.\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k8\_afinsq\_1\ X1))) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (k8\_afinsq\_1\ X1))) \Rightarrow (\neg((X0 \in X2) \vee (X0 \in X3)) \wedge ((X0 \neq k2\_flang\_1\ X1) \wedge (k6\_flang\_1\ X1\ X2\ X3 = k4\_flang\_1\ X1\ (k2\_flang\_1\ X1)))))$$