

## t50\_flang\_1

(TMGm9S5EFrwphAtwENQfxh1aP6XuvFm25bk)

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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  $k3\_catalan2 : \iota \Rightarrow \iota$  be given. Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k7\_flang\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k6\_flang\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k8\_flang\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. \forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k3\_catalan2 X0))) \Rightarrow (\forall X2. (v7\_ordinal1 X2) \Rightarrow (r1\_tarski (k7\_flang\_1 X0 X1 X2) (k8\_flang\_1 X0 X1))) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k3\_catalan2 X0))) \Rightarrow (\forall X2. (v7\_ordinal1 X2) \Rightarrow (k6\_flang\_1 X0 (k7\_flang\_1 X0 X1 X2) X1 = k6\_flang\_1 X0 X1 (k7\_flang\_1 X0 X1 X2))) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k3\_catalan2 X0))) \Rightarrow (\forall X2. (v7\_ordinal1 X2) \Rightarrow (k7\_flang\_1 X0 X1 (k2\_xcmplx\_0 X2 np\_1) = k6\_flang\_1 X0 (k7\_flang\_1 X0 X1 X2) X1)) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k3\_catalan2 X0))) \Rightarrow (\forall X2. (m1\_subset\_1 X2 (k1\_zfmisc\_1 (k3\_catalan2 X0))) \Rightarrow (\forall X3. (m1\_subset\_1 X3 (k1\_zfmisc\_1 (k3\_catalan2 X0))) \Rightarrow (\forall X4. (m1\_subset\_1 X4 (k1\_zfmisc\_1 (k3\_catalan2 X0))) \Rightarrow (((r1\_tarski X1 X2) \wedge (r1\_tarski X3 X4)) \Rightarrow (r1\_tarski (k6\_flang\_1 X0 X1 X3) (k6\_flang\_1 X0 X2 X4)))))) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k3\_catalan2 X0))) \Rightarrow (m1\_subset\_1 (k8\_flang\_1 X0 X1) (k1\_zfmisc\_1 (k3\_catalan2 X0))) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((m1\_subset\_1 X1 (k1\_zfmisc\_1 (k3\_catalan2 X0)))\wedge(v7\_ordinal1 X2))\Rightarrow(m1\_subset\_1 (k7\_flang\_1 X0 X1 X2) (k1\_zfmisc\_1 (k3\_catalan2 X0))) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.(r1\_tarski X0 X1)\Leftrightarrow(\forall X2.(X2 \in X0)\Rightarrow (X2 \in X1)) \quad (7)$$

**Theorem 1**

$$\forall X0.\forall X1.\forall X2.(m1\_subset\_1 X2 (k1\_zfmisc\_1 (k3\_catalan2 X0)))\Rightarrow(\forall X3.(v7\_ordinal1 X3)\Rightarrow((X1 \in k7\_flang\_1 X0 X2 (k2\_xcmplx\_0 X3 np\_1))\Rightarrow((X1 \in k6\_flang\_1 X0 (k8\_flang\_1 X0 X2) X2)\wedge(X1 \in k6\_flang\_1 X0 X2 (k8\_flang\_1 X0 X2))))))$$