

## t1\_flang\_3

(TMN7vH5QDy1be9jhCWYUuSsH2hMNT6ywnFAx)

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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  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k8\_flang\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_flang\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_catalan2 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k3\_catalan2 \\ & X0))) \Rightarrow (\forall X2. (m1\_subset\_1 X2 (k1\_zfmisc\_1 (k3\_catalan2 \\ & X0))) \Rightarrow (\forall X3. (m1\_subset\_1 X3 (k1\_zfmisc\_1 (k3\_catalan2 \\ & X0))) \Rightarrow (((r1\_tarski X1 (k8\_flang\_1 X0 X2)) \wedge (r1\_tarski X3 (k8\_flang\_1 \\ & X0 X2))) \Rightarrow (r1\_tarski (k6\_flang\_1 X0 X1 X3) (k8\_flang\_1 X0 X2)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. r1\_tarski X0 X0 \quad (2)$$

Assume the following.

$$\forall X0. k3\_catalan2 X0 = k8\_afinsq\_1 X0 \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k3\_catalan2 \\ & X0))) \Rightarrow (m1\_subset\_1 (k8\_flang\_1 X0 X1) (k1\_zfmisc\_1 (k3\_catalan2 \\ & X0))) \end{aligned} \quad (4)$$

### Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k8\_afinsq\_1 \\ & X0))) \Rightarrow (\forall X2. (m1\_subset\_1 X2 (k1\_zfmisc\_1 (k8\_afinsq\_1 \\ & X0))) \Rightarrow ((r1\_tarski X1 (k8\_flang\_1 X0 X2)) \Rightarrow ((r1\_tarski (k6\_flang\_1 \\ & X0 (k8\_flang\_1 X0 X2) X1) (k8\_flang\_1 X0 X2)) \wedge (r1\_tarski (k6\_flang\_1 \\ & X0 X1 (k8\_flang\_1 X0 X2)) (k8\_flang\_1 X0 X2)))))) \end{aligned}$$