

t100\_flang\_2  
(TMGLBVcDfnvrfz1b2Unpqb6RGxCwTuPGth4)

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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  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k2\_flang\_2 : \iota \Rightarrow \iota \Rightarrow \iota$  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.

$$\forall X0. \forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k8\_afinsq\_1 X0))) \Rightarrow ((k2\_flang\_2 X0 X1 = X1) \Leftrightarrow (k2\_flang\_1 X0 \in X1)) \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k3\_catalan2 X0))) \Rightarrow (\forall X2. (m1\_subset\_1 X2 (k1\_zfmisc\_1 (k3\_catalan2 X0))) \Rightarrow ((k2\_flang\_1 X0 \in X1) \Rightarrow ((r1\_tarski X2 (k6\_flang\_1 X0 X2 X1)) \wedge (r1\_tarski X2 (k6\_flang\_1 X0 X1 X2)))))) \end{aligned} \quad (2)$$

Assume the following.

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

**Theorem 1**

$$\begin{aligned} & \forall X0. \forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k8\_afinsq\_1 X0))) \Rightarrow (\forall X2. (m1\_subset\_1 X2 (k1\_zfmisc\_1 (k8\_afinsq\_1 X0))) \Rightarrow (((k2\_flang\_1 X0 \in X1) \wedge (k2\_flang\_1 X0 \in X2)) \Rightarrow ((r1\_tarski (k2\_flang\_2 X0 X1) (k6\_flang\_1 X0 X1 X2)) \wedge (r1\_tarski (k2\_flang\_2 X0 X1) (k6\_flang\_1 X0 X2 X1)))))) \end{aligned}$$