

t107\_flang\_2  
(TMG4oCPtDSZ6FCmAiukAt7kmpHKVfxx7bmE)

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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  $k6\_flang\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_flang\_2 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k8\_flang\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_catalan2 : \iota \Rightarrow \iota$  be given. Assume the following.

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

Assume the following.

$$\forall X0. \forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k3\_catalan2 X0))) \Rightarrow (k6\_flang\_1 X0 X1 (k8\_flang\_1 X0 X1) = k6\_flang\_1 X0 (k8\_flang\_1 X0 X1) X1) \quad (2)$$

Assume the following.

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

Assume the following.

$$\forall X0. \forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k8\_afinsq\_1 X0))) \Rightarrow (m1\_subset\_1 (k2\_flang\_2 X0 X1) (k1\_zfmisc\_1 (k8\_afinsq\_1 X0))) \quad (4)$$

**Theorem 1**

$$\forall X0. \forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k8\_afinsq\_1 X0))) \Rightarrow (k6\_flang\_1 X0 (k2\_flang\_2 X0 X1) (k8\_flang\_1 X0 X1) = k6\_flang\_1 X0 (k8\_flang\_1 X0 X1) (k2\_flang\_2 X0 X1))$$