

t43\_flang\_2  
(TMX6gNBxXmYyeZ1UeBetfeF3rrpa3waKyvB)

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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  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_flang\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k7\_flang\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_xcmplx\_0 : \iota \Rightarrow o$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k8\_afinsq\_1 \\ & \quad X0))) \Rightarrow (\forall X2. (v7\_ordinal1 X2) \Rightarrow (\forall X3. (v7\_ordinal1 \\ & \quad X3) \Rightarrow (\forall X4. (v7\_ordinal1 X4) \Rightarrow (r1\_tarski (k1\_flang\_2 X0 ( \\ & \quad k7\_flang\_1 X0 X1 X2) X3 X4) (k1\_flang\_2 X0 X1 (k3\_xcmplx\_0 X2 X3) ( \\ & \quad \quad k3\_xcmplx\_0 X2 X4)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k8\_afinsq\_1 \\ & \quad X0))) \Rightarrow (\forall X2. (v7\_ordinal1 X2) \Rightarrow (\forall X3. (v7\_ordinal1 \\ & \quad X3) \Rightarrow (\forall X4. (v7\_ordinal1 X4) \Rightarrow (k7\_flang\_1 X0 (k1\_flang\_2 \\ & \quad X0 X1 X2 X3) X4 = k1\_flang\_2 X0 X1 (k3\_xcmplx\_0 X2 X4) (k3\_xcmplx\_0 \\ & \quad \quad X3 X4)))))) \end{aligned} \tag{2}$$

Assume the following.

$$\forall X0. \forall X1. ((v1\_xcmplx\_0 X0) \wedge (v1\_xcmplx\_0 X1)) \Rightarrow (k3\_xcmplx\_0 X0 X1 = k3\_xcmplx\_0 X1 X0) \tag{3}$$

Assume the following.

$$\forall X0. (v1\_xreal\_0 X0) \Rightarrow (v1\_xcmplx\_0 X0) \tag{4}$$

Assume the following.

$$\forall X0. (v7\_ordinal1 X0) \Rightarrow (v1\_xreal\_0 X0) \tag{5}$$

**Theorem 1**

$$\begin{aligned} & \forall X0. \forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k8\_afinsq\_1 \\ & \quad X0))) \Rightarrow (\forall X2. (v7\_ordinal1 X2) \Rightarrow (\forall X3. (v7\_ordinal1 \\ & \quad X3) \Rightarrow (\forall X4. (v7\_ordinal1 X4) \Rightarrow (r1\_tarski (k1\_flang\_2 X0 ( \\ & \quad k7\_flang\_1 X0 X1 X2) X3 X4) (k7\_flang\_1 X0 (k1\_flang\_2 X0 X1 X3 X4) \\ & \quad X2)))))) \end{aligned}$$