

t74\_flang\_2

(TMJR6hF5Chv9tQsVcgZ3hMn1vKpvv9EhR8q)

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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  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $np\_1 : \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k7\_flang\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_flang\_2 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (m1\_subset\_1 X2 (k1\_zfmisc\_1 \\ & (k8\_afinsq\_1 X0))) \Rightarrow ((X1 \in k2\_flang\_2 X0 X2) \Leftrightarrow (\exists X3. (v7\_ordinal1 \\ & X3) \wedge ((r1\_xxreal\_0 X3 np\_1) \wedge (X1 \in k7\_flang\_1 X0 X2 X3)))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (r1\_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (2)$$

**Theorem 1**

$$\begin{aligned} & \forall X0. \forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k8\_afinsq\_1 \\ & X0))) \Rightarrow (\forall X2. (v7\_ordinal1 X2) \Rightarrow ((r1\_xxreal\_0 X2 np\_1) \Rightarrow \\ & (r1\_tarski (k7\_flang\_1 X0 X1 X2) (k2\_flang\_2 X0 X1)))) \end{aligned}$$