

t23\_flang\_2  
(TMFf4Y4G9RX7PwyomLGuc7ryF9qwFCyS963)

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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  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_flang\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $k7\_flang\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1\_xxreal\_0 X0) \Rightarrow (\forall X1.(v1\_xxreal\_0 X1) \Rightarrow (\forall X2. \\ & (v1\_xxreal\_0 X2) \Rightarrow (((r1\_xxreal\_0 X0 X1) \wedge (r1\_xxreal\_0 X1 X2)) \Rightarrow \\ & (r1\_xxreal\_0 X0 X2)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.(m1\_subset\_1 X2 (k1\_zfmisc\_1 \\ & (k8\_afinsq\_1 X0))) \Rightarrow (\forall X3.(v7\_ordinal1 X3) \Rightarrow (\forall X4. \\ & (v7\_ordinal1 X4) \Rightarrow ((X1 \in k1\_flang\_2 X0 X2 X3 X4) \Leftrightarrow (\exists X5.(v7\_ordinal1 \\ & X5) \wedge ((r1\_xxreal\_0 X3 X5) \wedge ((r1\_xxreal\_0 X5 X4) \wedge (X1 \in k7\_flang\_1 \\ & X0 X2 X5)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(r1\_tarski X0 X1) \Leftrightarrow (\forall X2.(X2 \in X0) \Rightarrow (X2 \in X1)) \quad (3)$$

Assume the following.

$$\forall X0.(v7\_ordinal1 X0) \Rightarrow (v1\_xxreal\_0 X0) \quad (4)$$

**Theorem 1**

$$\begin{aligned} & \forall X0.\forall X1.(m1\_subset\_1 X1 (k1\_zfmisc\_1 (k8\_afinsq\_1 \\ & X0))) \Rightarrow (\forall X2.(v7\_ordinal1 X2) \Rightarrow (\forall X3.(v7\_ordinal1 \\ & X3) \Rightarrow (\forall X4.(v7\_ordinal1 X4) \Rightarrow (\forall X5.(v7\_ordinal1 X5) \Rightarrow \\ & (((r1\_xxreal\_0 X2 X3) \wedge (r1\_xxreal\_0 X4 X5)) \Rightarrow (r1\_tarski (k1\_flang\_2 \\ & X0 X1 X3 X4) (k1\_flang\_2 X0 X1 X2 X5)))))) \end{aligned}$$