

t22\_aofa\_000

(TMF2f4HJA5co1qeErSk7nXCvHqVbmnB8qKo)

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Let  $v2\_struct\_0 : \iota \Rightarrow o$  be given. Let  $v2\_unialg\_1 : \iota \Rightarrow o$  be given. Let  $v3\_unialg\_1 : \iota \Rightarrow o$  be given. Let  $v4\_unialg\_1 : \iota \Rightarrow o$  be given. Let  $l1\_unialg\_1 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k9\_aofa\_000 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_nat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_numbers : \iota$  be given. Let  $k4\_finseq\_1 : \iota \Rightarrow \iota$  be given. Let  $u1\_unialg\_1 : \iota \Rightarrow \iota$  be given. Let  $m2\_finseq\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k3\_finseq\_2 : \iota \Rightarrow \iota$  be given. Let  $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_pua2mss1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2\_struct\_0 X0) \wedge ((v2\_unialg\_1 X0) \wedge ((v3\_unialg\_1 \\ & X0) \wedge ((v4\_unialg\_1 X0) \wedge (l1\_unialg\_1 X0)))))) \Rightarrow (\forall X1.(m1\_subset\_1 \\ & X1 (k1\_zfmisc\_1 (u1\_struct\_0 X0))) \Rightarrow (\forall X2.(v7\_ordinal1 \\ & X2) \Rightarrow (\forall X3.(X3 \in k9\_aofa\_000 X0 X1 (k1\_nat\_1 X2 np\_1)) \Leftrightarrow (\neg \\ & (\neg X3 \in k9\_aofa\_000 X0 X1 X2) \wedge (\forall X4.(m2\_subset\_1 X4 k5\_numbers \\ & (k4\_finseq\_1 (u1\_unialg\_1 X0))) \Rightarrow (\forall X5.(m2\_finseq\_2 X5 \\ & (u1\_struct\_0 X0) (k3\_finseq\_2 (u1\_struct\_0 X0))) \Rightarrow (\neg (X3 = k1\_funct\_1 \\ & (k2\_pua2mss1 X0 X4) X5) \wedge ((X5 \in k1\_relset\_1 (k3\_finseq\_2 (u1\_struct\_0 \\ & X0) (k2\_pua2mss1 X0 X4)) \wedge (r1\_tarski (k2\_relset\_1 (u1\_struct\_0 \\ & X0) X5) (k9\_aofa\_000 X0 X1 X2)))))))))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((r1\_tarski X0 X1) \wedge (r1\_tarski X1 X2)) \Rightarrow (r1\_tarski X0 X2) \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2\_struct\_0 X0) \wedge ((v2\_unialg\_1 X0) \wedge ((v3\_unialg\_1 \\ & X0) \wedge ((v4\_unialg\_1 X0) \wedge (l1\_unialg\_1 X0)))))) \Rightarrow (\forall X1.(m1\_subset\_1 \\ & X1 (k1\_zfmisc\_1 (u1\_struct\_0 X0))) \Rightarrow (k9\_aofa\_000 X0 X1 k6\_numbers = \\ & X1)) \end{aligned} \tag{3}$$

Assume the following.

$$\forall X0 : \iota \Rightarrow o. ((X0 \text{ k6\_numbers}) \wedge (\forall X1. (v7\_ordinal1 \text{ X1}) \Rightarrow ((X0 \text{ X1}) \Rightarrow (X0 (k1\_nat\_1 \text{ X1 np\_1})))))) \Rightarrow (\forall X1. (v7\_ordinal1 \text{ X1}) \Rightarrow (X0 \text{ X1})) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (r1\_tarski \text{ X0 X1}) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (5)$$

**Theorem 1**

$$\forall X0. ((\neg v2\_struct\_0 \text{ X0}) \wedge ((v2\_unialg\_1 \text{ X0}) \wedge ((v3\_unialg\_1 \text{ X0}) \wedge ((v4\_unialg\_1 \text{ X0}) \wedge (l1\_unialg\_1 \text{ X0})))))) \Rightarrow (\forall X1. (m1\_subset\_1 \text{ X1 (k1\_zfmisc\_1 (u1\_struct\_0 \text{ X0}))}) \Rightarrow (\forall X2. (m1\_subset\_1 \text{ X2 (k1\_zfmisc\_1 (u1\_struct\_0 \text{ X0}))}) \Rightarrow ((r1\_tarski \text{ X1 X2}) \Rightarrow (\forall X3. (v7\_ordinal1 \text{ X3}) \Rightarrow (r1\_tarski (k9\_aofa\_000 \text{ X0 X1 X3}) (k9\_aofa\_000 \text{ X0 X2 X3})))))))$$