

## t69\_prob\_3

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Let  $v2\_prob\_3 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v3\_prob\_3 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k9\_setfam\_1 : \iota \Rightarrow \iota$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_numbers : \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_setlim\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k2\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_kurato\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v2\_prob\_1 : \iota \Rightarrow o$  be given. Let  $v3\_prob\_1 : \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k1\_zfmisc\_1 \\ & X0))) \Rightarrow ((v3\_prob\_3 X1 X0) \Leftrightarrow (\forall X2. ((v1\_funct\_1 X2) \wedge ((v1\_funct\_2 \\ & X2 k5\_numbers (k9\_setfam\_1 X0)) \wedge (m1\_subset\_1 X2 (k1\_zfmisc\_1 \\ & (k2\_zfmisc\_1 k5\_numbers (k9\_setfam\_1 X0)))))) \Rightarrow (((v2\_prob\_1 \\ & X2) \wedge (r1\_tarski (k2\_relset\_1 (k9\_setfam\_1 X0) X2) X1)) \Rightarrow (k4\_kurato\_0 \\ & X0 X2 \in X1)))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k1\_zfmisc\_1 \\ & X0))) \Rightarrow ((v2\_prob\_3 X1 X0) \Leftrightarrow (\forall X2. ((v1\_funct\_1 X2) \wedge ((v1\_funct\_2 \\ & X2 k5\_numbers (k9\_setfam\_1 X0)) \wedge (m1\_subset\_1 X2 (k1\_zfmisc\_1 \\ & (k2\_zfmisc\_1 k5\_numbers (k9\_setfam\_1 X0)))))) \Rightarrow (((v3\_prob\_1 \\ & X2) \wedge (r1\_tarski (k2\_relset\_1 (k9\_setfam\_1 X0) X2) X1)) \Rightarrow (k4\_kurato\_0 \\ & X0 X2 \in X1)))) \end{aligned} \tag{2}$$

Assume the following.

$$\forall X0. \forall X1. (m1\_subset\_1 X0 (k1\_zfmisc\_1 X1)) \Leftrightarrow (r1\_tarski X0 X1) \tag{3}$$

Assume the following.

$$\forall X0. k9\_setfam\_1 X0 = k1\_zfmisc\_1 X0 \tag{4}$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. ((v1\_funct\_1 X1) \wedge ((v1\_funct\_2 X1 k5\_numbers \\ (k9\_setfam\_1 X0)) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 \\ k5\_numbers (k9\_setfam\_1 X0)))))) \Rightarrow ((v1\_setlim\_1 X1 X0) \Leftrightarrow ((v3\_prob\_1 \\ X1) \vee (v2\_prob\_1 X1))) \end{aligned} \quad (5)$$

**Theorem 1**

$$\begin{aligned} \forall X0. \forall X1. ((v2\_prob\_3 X0 X1) \wedge ((v3\_prob\_3 X0 X1) \wedge ( \\ m1\_subset\_1 X0 (k1\_zfmisc\_1 (k1\_zfmisc\_1 X1)))) \Leftrightarrow ((r1\_tarski \\ X0 (k9\_setfam\_1 X1)) \wedge (\forall X2. ((v1\_funct\_1 X2) \wedge ((v1\_funct\_2 \\ X2 k5\_numbers (k9\_setfam\_1 X1)) \wedge (m1\_subset\_1 X2 (k1\_zfmisc\_1 \\ (k2\_zfmisc\_1 k5\_numbers (k9\_setfam\_1 X1)))))) \Rightarrow (((v1\_setlim\_1 \\ X2 X1) \wedge (r1\_tarski (k2\_relset\_1 (k9\_setfam\_1 X1) X2) X0)) \Rightarrow (k4\_kurato\_0 \\ X1 X2 \in X0)))) \end{aligned}$$