

t9\_setlim\_1 (TMVm-  
PdDmik6h6qN8TV5rfqW5c65GbwHc8o2)

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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  $k9\_setfam.1 : \iota \Rightarrow \iota$  be given. Let  $m1\_subset.1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc.1 : \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc.1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k3\_prob.1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_kurato.0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_setfam.1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_relset.1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_setfam.1 : \iota \Rightarrow \iota$  be given. Let  $k3\_tarski : \iota \Rightarrow \iota$  be given. Let  $v1\_relat.1 : \iota \Rightarrow o$  be given. Let  $v5\_relat.1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k10\_xtuple.0 : \iota \Rightarrow \iota$  be given. Let  $k3\_card.3 : \iota \Rightarrow \iota$  be given. Let  $v4\_relat.1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} \forall X0. \forall X1. ((v1\_funct.1 X1) \wedge ((v1\_funct.2 X1 k5\_numbers \\ (k9\_setfam.1 X0)) \wedge (m1\_subset.1 X1 (k1\_zfmisc.1 (k2\_zfmisc.1 \\ k5\_numbers (k9\_setfam.1 X0)))))) \Rightarrow (k3\_prob.1 X0 X1 = k6\_setfam.1 \\ X0 (k2\_relset.1 (k9\_setfam.1 X0) X1)) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. r1\_tarski (k1\_setfam.1 X0) (k3\_tarski X0) \tag{2}$$

Assume the following.

$$\forall X0. k9\_setfam.1 X0 = k1\_zfmisc.1 X0 \tag{3}$$

Assume the following.

$$\forall X0. \forall X1. (m1\_subset.1 X1 (k1\_zfmisc.1 (k1\_zfmisc.1 X0))) \Rightarrow (k6\_setfam.1 X0 X1 = k1\_setfam.1 X1) \tag{4}$$

Assume the following.

$$\forall X0. \forall X1. ((v1\_relat.1 X1) \wedge (v5\_relat.1 X1 X0)) \Rightarrow (k2\_relset.1 X0 X1 = k10\_xtuple.0 X1) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_funct\_1 X1)\wedge((v1\_funct\_2 X1 k5\_numbers (k9\_setfam\_1 X0))\wedge(m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 k5\_numbers (k9\_setfam\_1 X0))))))\Rightarrow(k1\_kurato\_0 X0 X1 = k3\_card\_3 X1)) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.((v1\_relat\_1 X1)\wedge(v5\_relat\_1 X1 X0))\Rightarrow(m1\_subset\_1 (k2\_relset\_1 X0 X1) (k1\_zfmisc\_1 X0)) \quad (7)$$

Assume the following.

$$\forall X0.((v1\_relat\_1 X0)\wedge(v1\_funct\_1 X0))\Rightarrow(k3\_card\_3 X0 = k3\_tarski (k10\_xtuple\_0 X0)) \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1\_subset\_1 X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 X1)))\Rightarrow((v4\_relat\_1 X2 X0)\wedge(v5\_relat\_1 X2 X1)) \quad (9)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1\_subset\_1 X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 X1)))\Rightarrow(v1\_relat\_1 X2) \quad (10)$$

**Theorem 1**

$$\forall X0.\forall X1.((v1\_funct\_1 X1)\wedge((v1\_funct\_2 X1 k5\_numbers (k9\_setfam\_1 X0))\wedge(m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 k5\_numbers (k9\_setfam\_1 X0))))))\Rightarrow(r1\_tarski (k3\_prob\_1 X0 X1) (k1\_kurato\_0 X0 X1))$$