

## t52\_setlim\_1

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Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_numbers : \iota$  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  $k9\_setfam\_1 : \iota \Rightarrow \iota$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v2\_prob\_1 : \iota \Rightarrow o$  be given. Let  $k3\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_setlim\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_prob\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v3\_prob\_1 : \iota \Rightarrow o$  be given. Let  $k2\_prob\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_setlim\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_kurato\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $k4\_ordinal1 : \iota$  be given. Let  $k6\_numbers : \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((v1\_funct\_1 X1) \wedge ((v1\_funct\_2 X1 k5\_numbers \\ & (k9\_setfam\_1 X0)) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 \\ & k5\_numbers (k9\_setfam\_1 X0)))))) \Rightarrow ((v2\_prob\_1 X1) \Leftrightarrow (v3\_prob\_1 \\ & (k2\_prob\_1 X0 X1))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. (m1\_subset\_1 X0 k5\_numbers) \Rightarrow (\forall X1. \forall X2. \\ & ((v1\_funct\_1 X2) \wedge ((v1\_funct\_2 X2 k5\_numbers (k9\_setfam\_1 X1)) \wedge \\ & (m1\_subset\_1 X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 k5\_numbers (k9\_setfam\_1 \\ & X1)))))) \Rightarrow ((v3\_prob\_1 X2) \Rightarrow (k3\_funct\_2 k5\_numbers (k9\_setfam\_1 \\ & X1) (k4\_setlim\_1 X1 X2) X0 = k1\_kurato\_0 X1 X2))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. (m1\_subset\_1 X0 k5\_numbers) \Rightarrow (\forall X1. \forall X2. \\ & ((v1\_funct\_1 X2) \wedge ((v1\_funct\_2 X2 k5\_numbers (k9\_setfam\_1 X1)) \wedge \\ & (m1\_subset\_1 X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 k5\_numbers (k9\_setfam\_1 \\ & X1)))))) \Rightarrow (k3\_funct\_2 k5\_numbers (k9\_setfam\_1 X1) (k2\_setlim\_1 \\ & X1 X2) X0 = k3\_subset\_1 X1 (k3\_funct\_2 k5\_numbers (k9\_setfam\_1 X1) \\ & (k4\_setlim\_1 X1 (k2\_prob\_1 X1 X2)) X0))) \end{aligned} \quad (3)$$

Assume the following.

$$m1\_subset\_1 k1\_xboole\_0 k4\_ordinal1 \quad (4)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.((v1\_funct\_1 X1)\wedge((v1\_funct\_2 X1 k5\_numbers \\ (k9\_setfam\_1 X0))\wedge(m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 \\ k5\_numbers (k9\_setfam\_1 X0))))))\Rightarrow(k3\_funct\_2 k5\_numbers (k9\_setfam\_1 \\ X0) (k2\_setlim\_1 X0 X1) k6\_numbers = k3\_prob\_1 X0 X1) \end{aligned} \quad (5)$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \quad (6)$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \quad (7)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.((v1\_funct\_1 X1)\wedge((v1\_funct\_2 X1 k5\_numbers \\ (k9\_setfam\_1 X0))\wedge(m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 \\ k5\_numbers (k9\_setfam\_1 X0))))))\Rightarrow((v1\_funct\_1 (k2\_prob\_1 X0 \\ X1))\wedge((v1\_funct\_2 (k2\_prob\_1 X0 X1) k5\_numbers (k9\_setfam\_1 X0))\wedge \\ (m1\_subset\_1 (k2\_prob\_1 X0 X1) (k1\_zfmisc\_1 (k2\_zfmisc\_1 k5\_numbers \\ (k9\_setfam\_1 X0)))))) \end{aligned} \quad (8)$$

**Theorem 1**

$$\begin{aligned} \forall X0.(m1\_subset\_1 X0 k5\_numbers)\Rightarrow(\forall X1.\forall X2. \\ ((v1\_funct\_1 X2)\wedge((v1\_funct\_2 X2 k5\_numbers (k9\_setfam\_1 X1))\wedge \\ (m1\_subset\_1 X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 k5\_numbers (k9\_setfam\_1 \\ X1))))))\Rightarrow((v2\_prob\_1 X2)\Rightarrow(k3\_funct\_2 k5\_numbers (k9\_setfam\_1 \\ X1) (k2\_setlim\_1 X1 X2) X0 = k3\_prob\_1 X1 X2))) \end{aligned}$$