

## t57\_setlim\_1

(TMbd8hdhPXw6NM7RhCV7V4qfZMj5kbK27kL)

October 27, 2020

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  $k4\_kurato\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_kurato\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_prob\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_prob\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_setlim\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} \forall X0. \forall X1. ((v1\_funct\_1 X1) \wedge ((v1\_funct\_2 X1 k5\_numbers \\ (k9\_setfam\_1 X0)) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 \\ k5\_numbers (k9\_setfam\_1 X0)))))) \Rightarrow (k3\_kurato\_0 X0 X1 = k3\_subset\_1 \\ X0 (k4\_kurato\_0 X0 (k2\_prob\_1 X0 X1))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 X0)) \Rightarrow (k3\_subset\_1 X0 (k3\_subset\_1 X0 X1) = X1) \tag{2}$$

Assume the following.

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

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. ((v1\_funct\_1 X1) \wedge ((v1\_funct\_2 X1 k5\_numbers \\ (k9\_setfam\_1 X0)) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 \\ k5\_numbers (k9\_setfam\_1 X0)))))) \Rightarrow (m1\_subset\_1 (k4\_kurato\_0 \\ X0 X1) (k1\_zfmisc\_1 X0)) \end{aligned} \tag{4}$$

Assume the following.

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

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. ((v1\_funct\_1 X1) \wedge ((v1\_funct\_2 X1 k5\_numbers \\ (k9\_setfam\_1 X0)) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 \\ k5\_numbers (k9\_setfam\_1 X0)))))) \Rightarrow (k4\_kurato\_0 X0 X1 = k3\_prob\_1 \\ X0 (k4\_setlim\_1 X0 X1)) \end{aligned} \tag{6}$$

**Theorem 1**

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