

t33_setlim_1 (TMT-
sZgikKG8vb8gYeLZsMZVXpstVxHHPg4M)

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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 $r2_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ 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 $k2_setlim_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((v1_funct_1 X1) \wedge ((v1_funct_2 X1 k5_numbers \\ & (k9_setfam_1 X0)) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 \\ & k5_numbers (k9_setfam_1 X0)))))) \Rightarrow (r2_funct_2 k5_numbers (k9_setfam_1 \\ & X0) (k2_prob_1 X0 (k2_setlim_1 X0 X1)) (k4_setlim_1 X0 (k2_prob_1 \\ & X0 X1))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. (((v1_funct_1 X2) \wedge \\ & ((v1_funct_2 X2 X0 X1) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 \\ & X0 X1)))))) \wedge ((v1_funct_1 X3) \wedge ((v1_funct_2 X3 X0 X1) \wedge (m1_subset_1 \\ & X3 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))))) \Rightarrow ((r2_funct_2 X0 X1 X2 \\ & X3) \Leftrightarrow (X2 = X3)) \end{aligned} \tag{2}$$

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.

$$\begin{aligned} \forall X0.\forall X1.((v1_funct_1 X1)\wedge((v1_funct_2 X1 k5_numbers \\ (k9_setfam_1 X0))\wedge(m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 \\ k5_numbers (k9_setfam_1 X0))))))\Rightarrow((v1_funct_1 (k4_setlim_1 \\ X0 X1))\wedge((v1_funct_2 (k4_setlim_1 X0 X1) k5_numbers (k9_setfam_1 \\ X0))\wedge(m1_subset_1 (k4_setlim_1 X0 X1) (k1_zfmisc_1 (k2_zfmisc_1 \\ k5_numbers (k9_setfam_1 X0)))))) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.((v1_funct_1 X1)\wedge((v1_funct_2 X1 k5_numbers \\ (k9_setfam_1 X0))\wedge(m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 \\ k5_numbers (k9_setfam_1 X0))))))\Rightarrow((v1_funct_1 (k2_setlim_1 \\ X0 X1))\wedge((v1_funct_2 (k2_setlim_1 X0 X1) k5_numbers (k9_setfam_1 \\ X0))\wedge(m1_subset_1 (k2_setlim_1 X0 X1) (k1_zfmisc_1 (k2_zfmisc_1 \\ k5_numbers (k9_setfam_1 X0)))))) \end{aligned} \quad (5)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.((v1_funct_1 X1)\wedge((v1_funct_2 X1 k5_numbers \\ (k9_setfam_1 X0))\wedge(m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 \\ k5_numbers (k9_setfam_1 X0))))))\Rightarrow((v1_funct_1 (k2_prob_1 X0 \\ X1))\wedge((v1_funct_2 (k2_prob_1 X0 X1) k5_numbers (k9_setfam_1 X0))\wedge \\ (m1_subset_1 (k2_prob_1 X0 X1) (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers \\ (k9_setfam_1 X0)))))) \end{aligned} \quad (6)$$

Theorem 1

$$\begin{aligned} \forall X0.\forall X1.((v1_funct_1 X1)\wedge((v1_funct_2 X1 k5_numbers \\ (k9_setfam_1 X0))\wedge(m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 \\ k5_numbers (k9_setfam_1 X0))))))\Rightarrow(r2_funct_2 k5_numbers (k9_setfam_1 \\ X0) (k2_prob_1 X0 (k4_setlim_1 X0 X1)) (k2_setlim_1 X0 (k2_prob_1 \\ X0 X1))) \end{aligned}$$