

l2_symssp_1

(TMJ1f96Hfw3sqwzowcfx2fK1CEEUfS1Co8)

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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 $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k5_binop_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $c2_symssp_1 : \iota$ be given. Let $k2_binop_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k17_funcop_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0 : \iota \Rightarrow \iota \Rightarrow \iota. \forall X1. \forall X2. \forall X3. \exists X4. \\ & ((v1_funct_1 X4) \wedge ((v1_funct_2 X4 (k2_zfmisc_1 X3 X2) X1) \wedge (m1_subset_1 \\ & X4 (k1_zfmisc_1 (k2_zfmisc_1 (k2_zfmisc_1 X3 X2) X1)))))) \wedge (\forall X5. \\ & (m1_subset_1 X5 X3) \Rightarrow (\forall X6. (m1_subset_1 X6 X2) \Rightarrow (k2_binop_1 \\ & X3 X2 X1 X4 X5 X6 = X0 X5 X6))) \end{aligned} \tag{1}$$

Assume the following.

$$m1_subset_1 k6_numbers (k1_tarski k6_numbers) \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. (((v1_funct_1 X1) \wedge \\ & ((v1_funct_2 X1 (k2_zfmisc_1 X0 X0) X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 \\ & (k2_zfmisc_1 (k2_zfmisc_1 X0 X0) X0)))))) \wedge ((m1_subset_1 X2 X0) \wedge \\ & (m1_subset_1 X3 X0))) \Rightarrow (m1_subset_1 (k5_binop_1 X0 X1 X2 X3) X0) \end{aligned} \tag{3}$$

Assume the following.

$$m1_subset_1 c2_symssp_1 (k1_tarski k6_numbers) \tag{4}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. ((v1_funct_1 X3) \wedge \\ & ((v1_funct_2 X3 (k2_zfmisc_1 (k1_tarski X0) (k1_tarski X1)) (k1_tarski \\ & X2)) \wedge (m1_subset_1 X3 (k1_zfmisc_1 (k2_zfmisc_1 (k2_zfmisc_1 \\ & (k1_tarski X0) (k1_tarski X1)) (k1_tarski X2)))))) \Rightarrow (X3 = k17_funcop_1 \\ & X0 X1 X2) \end{aligned} \tag{5}$$

Theorem 1

$$\begin{aligned} & \exists X0.((v1_funct_1 X0) \wedge ((v1_funct_2 X0 (k2_zfmisc_1 (k1_tarski \\ & \quad k6_numbers) (k1_tarski k6_numbers)) (k1_tarski k6_numbers)) \wedge \\ & (m1_subset_1 X0 (k1_zfmisc_1 (k2_zfmisc_1 (k2_zfmisc_1 (k1_tarski \\ & \quad k6_numbers) (k1_tarski k6_numbers)) (k1_tarski k6_numbers)))))) \wedge \\ & \quad (\forall X1.(m1_subset_1 X1 (k1_tarski k6_numbers)) \Rightarrow (\forall X2. \\ & (m1_subset_1 X2 (k1_tarski k6_numbers)) \Rightarrow (k5_binop_1 (k1_tarski \\ & \quad k6_numbers) X0 X1 X2 = c2_symsp_1))) \end{aligned}$$