

t17_comput_1

(TMXk8uwQtPZHqNgz6rdQCPemWdYti28fRHd)

October 27, 2020

Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_finseq_2 : \iota \Rightarrow \iota$ be given. Let $k5_numbers : \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v4_valued_0 : \iota \Rightarrow o$ be given. Let $v2_comput_1 : \iota \Rightarrow o$ be given. Let $v3_margrel1 : \iota \Rightarrow \iota \Rightarrow o$ 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 $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k1_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (v1_relat_1 X2) \Rightarrow (((r1_tarski \\ & (k9_xtuple_0 X2) X0) \wedge (r1_tarski (k10_xtuple_0 X2) X1)) \Rightarrow (m1_subset_1 \\ & X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \tag{2}$$

Assume the following.

$$\forall X0. \forall X1. ((v1_relat_1 X1) \wedge (v4_relat_1 X1 X0)) \Rightarrow (k1_relset_1 X0 X1 = k9_xtuple_0 X1) \tag{3}$$

Assume the following.

$$\forall X0. \forall X1. ((v1_relat_1 X1) \wedge (v4_relat_1 X1 X0)) \Rightarrow (m1_subset_1 (k1_relset_1 X0 X1) (k1_zfmisc_1 X0)) \tag{4}$$

Assume the following.

$$\forall X0. (v1_relat_1 X0) \Rightarrow ((v4_valued_0 X0) \Leftrightarrow (r1_tarski (k10_xtuple_0 X0) k5_numbers)) \tag{5}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((v1_relat_1 X0) \wedge (v4_relat_1 X0 (k3_finseq_2 k5_numbers))) \Rightarrow \\
& ((v2_comput_1 X0) \Leftrightarrow (\forall X1.(m2_finseq_1 X1 k5_numbers) \Rightarrow (\\
& \forall X2.(m2_finseq_1 X2 k5_numbers) \Rightarrow (((k3_finseq_1 X1 = k3_finseq_1 \\
& X2) \wedge (X1 \in k1_relset_1 (k3_finseq_2 k5_numbers) X0)) \Rightarrow (X2 \in k1_relset_1 \\
& (k3_finseq_2 k5_numbers) X0))))))
\end{aligned} \tag{6}$$

Assume the following.

$$\begin{aligned}
& \forall X0. \forall X1. ((v1_funct_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 \\
& (k2_zfmisc_1 (k3_finseq_2 X0) X0))) \Rightarrow ((v3_margrel1 X1 X0) \Leftrightarrow (\forall X2. \\
& (m2_finseq_1 X2 X0) \Rightarrow (\forall X3.(m2_finseq_1 X3 X0) \Rightarrow (((k3_finseq_1 \\
& X2 = k3_finseq_1 X3) \wedge (X2 \in k9_xtuple_0 X1)) \Rightarrow (X3 \in k9_xtuple_0 X1))))))
\end{aligned} \tag{7}$$

Theorem 1

$$\begin{aligned}
& \forall X0.((v1_relat_1 X0) \wedge ((v4_relat_1 X0 (k3_finseq_2 k5_numbers)) \wedge \\
& ((v1_funct_1 X0) \wedge ((v4_valued_0 X0) \wedge (v2_comput_1 X0)))))) \Rightarrow ((\\
& v1_funct_1 X0) \wedge ((v3_margrel1 X0 k5_numbers) \wedge (m1_subset_1 X0 \\
& (k1_zfmisc_1 (k2_zfmisc_1 (k3_finseq_2 k5_numbers) k5_numbers))))))
\end{aligned}$$