

t28_comput_1

(TMKxUC2CYkiBdXFyScJHAAMjHqrgPw58JTk)

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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 $v2_margrel1 : \iota \Rightarrow o$ be given. Let $m2_rfunct_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_comput_1 : \iota \Rightarrow \iota$ 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 $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_rfunct_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_rfunct_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ 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.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((v1_funct_1 X2) \wedge (m1_subset_1 \\ & X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))) \Rightarrow (X2 \in k4_partfun1 X0 X1) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski \\ & X0 X1) \end{aligned} \tag{3}$$

Assume the following.

$$\forall X0. \forall X1. (X0 \in X1) \Rightarrow (m1_subset_1 X0 X1) \tag{4}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((\neg v1_xboole_0 X2) \wedge (m1_rfunct_3 \\ & X2 X0 X1)) \Rightarrow (\forall X3. (m2_rfunct_3 X3 X0 X1 X2) \Leftrightarrow (m1_subset_1 X3 \\ & X2)) \end{aligned} \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.k3_rfunc_3 X0 X1 = k4_partfun1 X0 X1 \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.((v1_relat_1 X1)\wedge(v4_relat_1 X1 X0))\Rightarrow(k1_relset_1 X0 X1 = k9_xtuple_0 X1) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.\neg v1_xboole_0 (k4_partfun1 X0 X1) \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.m1_rfunc_3 (k3_rfunc_3 X0 X1) X0 X1 \quad (9)$$

Assume the following.

$$\forall X0.(\neg v1_xboole_0 (k2_comput_1 X0))\wedge(m1_rfunc_3 (k2_comput_1 X0) (k3_finseq_2 X0) X0) \quad (10)$$

Assume the following.

$$\forall X0.\forall X1.((v1_relat_1 X1)\wedge(v4_relat_1 X1 X0))\Rightarrow(m1_subset_1 (k1_relset_1 X0 X1) (k1_zfmisc_1 X0)) \quad (11)$$

Assume the following.

$$\forall X0.(v1_relat_1 X0)\Rightarrow((v4_valued_0 X0)\Leftrightarrow(r1_tarski (k10_xtuple_0 X0) k5_numbers)) \quad (12)$$

Assume the following.

$$\forall X0.k2_comput_1 X0 = ReplSep (toset (\lambda X1 : \iota.m2_rfunc_3 X1 (k3_finseq_2 X0) X0 (k3_rfunc_3 (k3_finseq_2 X0) X0))) (\lambda X1 : \iota.v2_margrel1 X1) (\lambda X1 : \iota.X1) \quad (13)$$

Theorem 1

$$\forall X0.((v1_relat_1 X0)\wedge((v4_relat_1 X0 (k3_finseq_2 k5_numbers))\wedge((v1_funct_1 X0)\wedge((v4_valued_0 X0)\wedge(v2_margrel1 X0)))))\Rightarrow(m2_rfunc_3 X0 (k3_finseq_2 k5_numbers) k5_numbers (k2_comput_1 k5_numbers))$$