

t25_modelc_1

(TMV6i5FfphMBjqundpr1EmyQFkQnqgdUsuy)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ 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 $m1_modelc_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_numbers : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_nat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Assume the following.

$$\begin{aligned}
 & \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. ((v1_partfun1 X1 X0) \wedge \\
 & (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 X0 X0)))) \Rightarrow (\forall X2. \\
 & (m1_subset_1 X2 X0) \Rightarrow (\exists X3. ((v1_funct_1 X3) \wedge ((v1_funct_2 \\
 & X3 k5_numbers X0) \wedge (m1_subset_1 X3 (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers \\
 & X0)))))) \wedge ((k3_funct_2 k5_numbers X0 X3 k6_numbers = X2) \wedge (\forall X4. \\
 & (m1_subset_1 X4 k5_numbers) \Rightarrow (k4_tarski (k3_funct_2 k5_numbers \\
 & X0 X3 X4) (k3_funct_2 k5_numbers X0 X3 (k2_nat_1 X4 np_1)) \in X1))))))
 \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned}
 & \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. ((v1_partfun1 X1 X0) \wedge \\
 & (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 X0 X0)))) \Rightarrow (\forall X2. \\
 & ((v1_funct_1 X2) \wedge ((v1_funct_2 X2 k5_numbers X0) \wedge (m1_subset_1 \\
 & X2 (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers X0)))))) \Rightarrow ((m1_modelc_1 \\
 & X2 X0 X1) \Leftrightarrow (\forall X3. (m1_subset_1 X3 k5_numbers) \Rightarrow (k4_tarski \\
 & (k3_funct_2 k5_numbers X0 X2 X3) (k3_funct_2 k5_numbers X0 X2 (k2_nat_1 \\
 & X3 np_1)) \in X1))))))
 \end{aligned} \tag{2}$$

Theorem 1

$$\begin{aligned}
 & \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. ((v1_partfun1 X1 X0) \wedge \\
 & (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 X0 X0)))) \Rightarrow (\forall X2. \\
 & (m1_subset_1 X2 X0) \Rightarrow (\exists X3. (m1_modelc_1 X3 X0 X1) \wedge (k3_funct_2 \\
 & k5_numbers X0 X3 k6_numbers = X2))))
 \end{aligned}$$