

l88_modelc_1 (TMPPrZ-
fUcXFxN9gK1hDcVFp8VdmfJpM7GQWw)

October 27, 2020

Let $v1_xboole_0 : \iota \Rightarrow o$ 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 $k30_modelc_1 : \iota \Rightarrow \iota$ 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 $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k32_modelc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r2_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0 : \iota \Rightarrow \iota. \forall X1. \forall X2. ((v1_funct_1 X2) \wedge (\\ & (v1_funct_2 X2 X1 X1) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 \\ & X1 X1)))) \Rightarrow (\forall X3. ((v1_funct_1 X3) \wedge ((v1_funct_2 X3 X1 X1) \wedge \\ & (m1_subset_1 X3 (k1_zfmisc_1 (k2_zfmisc_1 X1 X1)))) \Rightarrow (((\forall X4. \\ & (X4 \in X1) \Rightarrow (k1_funct_1 X2 X4 = X0 X4)) \wedge (\forall X4. (X4 \in X1) \Rightarrow (k1_funct_1 \\ & X3 X4 = X0 X4))) \Rightarrow (r2_funct_2 X1 X1 X2 X3))) \end{aligned} \tag{1}$$

Theorem 1

$$\begin{aligned} & \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. ((v1_funct_1 X1) \wedge (\\ & (v1_funct_2 X1 (k30_modelc_1 X0) (k30_modelc_1 X0)) \wedge (m1_subset_1 \\ & X1 (k1_zfmisc_1 (k2_zfmisc_1 (k30_modelc_1 X0) (k30_modelc_1 \\ & X0)))) \Rightarrow (\forall X2. ((v1_funct_1 X2) \wedge ((v1_funct_2 X2 (k30_modelc_1 \\ & X0) (k30_modelc_1 X0)) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 \\ & (k30_modelc_1 X0) (k30_modelc_1 X0)))) \Rightarrow (((\forall X3. (X3 \in \\ & k30_modelc_1 X0) \Rightarrow (k1_funct_1 X1 X3 = k32_modelc_1 X0 X3)) \wedge (\forall X3. \\ & (X3 \in k30_modelc_1 X0) \Rightarrow (k1_funct_1 X2 X3 = k32_modelc_1 X0 X3))) \Rightarrow \\ & (r2_funct_2 (k30_modelc_1 X0) (k30_modelc_1 X0) X1 X2)))) \end{aligned}$$