

l92_modelc_1 (TMUCADgat- gkY9H9ebnDMARALRrtwhfZaW53)

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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 $v1_funct_1 : \iota \Rightarrow o$ 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 $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k35_modelc_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ 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

$$\begin{aligned} & \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. ((v1_partfun1 X1 X0) \wedge \\ & (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 X0 X0)))) \Rightarrow (\forall X2. \\ & ((v1_funct_1 X2) \wedge ((v1_funct_2 X2 (k30_modelc_1 X0) (k30_modelc_1 \\ & X0)) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 (k30_modelc_1 \\ & X0) (k30_modelc_1 X0)))))) \Rightarrow (\forall X3. ((v1_funct_1 X3) \wedge ((v1_funct_2 \\ & X3 (k30_modelc_1 X0) (k30_modelc_1 X0)) \wedge (m1_subset_1 X3 (k1_zfmisc_1 \\ & (k2_zfmisc_1 (k30_modelc_1 X0) (k30_modelc_1 X0)))))) \Rightarrow (((\forall X4. \\ & (X4 \in k30_modelc_1 X0) \Rightarrow (k1_funct_1 X2 X4 = k35_modelc_1 X0 X1 X4)) \wedge \\ & (\forall X4. (X4 \in k30_modelc_1 X0) \Rightarrow (k1_funct_1 X3 X4 = k35_modelc_1 \\ & X0 X1 X4))) \Rightarrow (r2_funct_2 (k30_modelc_1 X0) (k30_modelc_1 X0) X2 \\ & X3)))) \end{aligned}$$