

t2_fomodel4 (TMTma- jkq9bnGYoMHshaNKkaBeVUhRGCZ5uK)

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Let $v6_struct_0 : \iota \Rightarrow o$ be given. Let $v11_fomodel1 : \iota \Rightarrow o$ be given. Let $l1_fomodel1 : \iota \Rightarrow o$ be given. Let $v2_fomodel4 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_fomodel4 : \iota \Rightarrow \iota \Rightarrow o$ 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 $k9_setfam_1 : \iota \Rightarrow \iota$ be given. Let $k1_fomodel4 : \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k21_fomodel4 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((\neg v6_struct_0 X2) \wedge ((v11_fomodel1 \\ & X2) \wedge (l1_fomodel1 X2))) \Rightarrow (\forall X3. (m1_subset_1 X3 (k1_zfmisc_1 \\ & (k2_zfmisc_1 (k9_setfam_1 (k1_fomodel4 X2)) (k1_fomodel4 X2)))) \Rightarrow \\ & ((X0 \in k1_funct_1 (k21_fomodel4 X2 X3) X1) \Leftrightarrow ((X0 \in k1_fomodel4 X2) \wedge \\ & (k4_tarski X1 X0 \in X3)))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. ((\neg v6_struct_0 X0) \wedge ((v11_fomodel1 X0) \wedge (l1_fomodel1 X0))) \Rightarrow (\forall X1. (v1_fomodel4 X1 X0) \Leftrightarrow (X1 \in k1_fomodel4 X0)) \tag{2}$$

Theorem 1

$$\begin{aligned} & \forall X0. ((\neg v6_struct_0 X0) \wedge ((v11_fomodel1 X0) \wedge (l1_fomodel1 \\ & X0))) \Rightarrow (\forall X1. (v2_fomodel4 X1 X0) \Rightarrow (\forall X2. (v1_fomodel4 \\ & X2 X0) \Rightarrow (\forall X3. (m1_subset_1 X3 (k1_zfmisc_1 (k2_zfmisc_1 \\ & (k9_setfam_1 (k1_fomodel4 X0)) (k1_fomodel4 X0)))) \Rightarrow ((k4_tarski \\ & X1 X2 \in X3) \Rightarrow (X2 \in k1_funct_1 (k21_fomodel4 X0 X3) X1)))))) \end{aligned}$$