

l22_fomodel4
(TMZLNQJ8LNqKhWcM9StCM4cvff7HP8Xvjia5)

October 27, 2020

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 $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k9_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_setfam_1 : \iota \Rightarrow \iota$ be given. Let $k1_fomodel4 : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v8_fomodel4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k2_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $v7_fomodel4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. k9_setfam_1 X0 = k1_zfmisc_1 X0 \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0. ((\neg v6_struct_0 X0) \wedge ((v11_fomodel1 X0) \wedge (l1_fomodel1 \\ X0))) \Rightarrow (\forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k9_funct_2 (\\ k9_setfam_1 (k1_fomodel4 X0) (k9_setfam_1 (k1_fomodel4 X0)))))) \Rightarrow \\ (\forall X2. \forall X3. (v8_fomodel4 X3 X0 X1 X2) \Leftrightarrow (\exists X4. (\\ r1_tarski (k1_xtuple_0 X4) X2) \wedge ((k2_xtuple_0 X4 = X3) \wedge (v7_fomodel4 \\ (k1_tarski X4) X0 X1)))))) \end{aligned} \quad (3)$$

Theorem 1

$$\begin{aligned} \forall X0. \forall X1. \forall X2. \forall X3. ((\neg v6_struct_0 X3) \wedge \\ ((v11_fomodel1 X3) \wedge (l1_fomodel1 X3))) \Rightarrow (\forall X4. (m1_subset_1 \\ X4 (k1_zfmisc_1 (k9_funct_2 (k9_setfam_1 (k1_fomodel4 X3) (k9_setfam_1 \\ (k1_fomodel4 X3)))))) \Rightarrow (((r1_tarski X0 X1) \wedge (v8_fomodel4 X2 X3 X4 \\ X0)) \Rightarrow (v8_fomodel4 X2 X3 X4 X1))) \end{aligned}$$