

t11_fomodel4 (TMLd-
JyZ1wPQn8Dcs4Eb2yPxfwDSbNKXCtov)

October 27, 2020

Let $v7_ordinal1 : \iota \Rightarrow o$ be given. 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 $v4_fomodel4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v6_fomodel4 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_fomodel4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

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

Assume the following.

$$\begin{aligned} \forall X0. (v7_ordinal1 X0) \Rightarrow (\forall X1. \forall X2. ((\neg v6_struct_0 X2) \wedge ((v11_fomodel1 X2) \wedge (l1_fomodel1 X2))) \Rightarrow (\forall X3. (m1_subset_1 X3 (k1_zfmisc_1 (k9_funct_2 (k9_setfam_1 (k1_fomodel4 X2)) (k9_setfam_1 (k1_fomodel4 X2)))) \Rightarrow (\forall X4. (m1_subset_1 X4 (k1_zfmisc_1 (k9_funct_2 (k9_setfam_1 (k1_fomodel4 X2)) (k9_setfam_1 (k1_fomodel4 X2)))) \Rightarrow ((r1_tarski X3 X4) \Rightarrow (((\neg v6_fomodel4 X4 X2) \wedge (\neg v6_fomodel4 X3 X2)) \vee (r1_tarski (k1_funct_1 (k3_fomodel4 X2 X3 X0) X1) (k1_funct_1 (k3_fomodel4 X2 X4 X0) X1))))))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0. (v7_ordinal1 X0) \Rightarrow (\forall X1. ((\neg v6_struct_0 X1) \wedge ((v11_fomodel1 X1) \wedge (l1_fomodel1 X1))) \Rightarrow (\forall X2. (m1_subset_1 X2 (k1_zfmisc_1 (k9_funct_2 (k9_setfam_1 (k1_fomodel4 X1)) (k9_setfam_1 (k1_fomodel4 X1)))) \Rightarrow (\forall X3. \forall X4. (v4_fomodel4 X4 X0 X1 X2 X3) \Leftrightarrow (X4 \in k1_funct_1 (k3_fomodel4 X1 X2 X0) X3)))) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (4)$$

Theorem 1

$$\begin{aligned} & \forall X0.(v7_ordinal1\ X0) \Rightarrow (\forall X1.\forall X2.\forall X3. \\ & ((\neg v6_struct_0\ X3) \wedge ((v11_fomodel1\ X3) \wedge (l1_fomodel1\ X3))) \Rightarrow (\\ & \forall X4.(m1_subset_1\ X4\ (k1_zfmisc_1\ (k9_funct_2\ (k9_setfam_1 \\ & (k1_fomodel4\ X3))\ (k9_setfam_1\ (k1_fomodel4\ X3)))) \Rightarrow (\forall X5. \\ & (m1_subset_1\ X5\ (k1_zfmisc_1\ (k9_funct_2\ (k9_setfam_1\ (k1_fomodel4 \\ & X3))\ (k9_setfam_1\ (k1_fomodel4\ X3)))) \Rightarrow (((r1_tarski\ X4\ X5) \wedge (\\ & v4_fomodel4\ X1\ X0\ X3\ X4\ X2)) \Rightarrow (((\neg v6_fomodel4\ X5\ X3) \wedge (\neg v6_fomodel4 \\ & X4\ X3)) \vee (v4_fomodel4\ X1\ X0\ X3\ X5\ X2)))))) \end{aligned}$$