t10_fomodel4 (TMH9RSN2koD4NaJ7u7FJmWSS3HNpvQNbzn7)

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 $v2\_fomodel4 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3\_fomodel4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_tarski : \iota \Rightarrow \iota$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $k5\_numbers : \iota$ be given. Let $v4\_fomodel4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ X1)) \Leftrightarrow (r1\_tarski\ X0\ X1) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.((\neg v6\_struct\_0\ X1) \wedge ((v11\_fomodel1\ X1) \wedge (l1\_fomodel1\ X1))) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k9\_funct\_2\ (k9\_setfam\_1\ (k1\_fomodel4\ X1))\ (k9\_setfam\_1\ (k1\_fomodel4\ X1))))) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (k1\_fomodel4\ X1))) \Rightarrow (\neg(v3\_fomodel4\ (k1\_tarski\ X0)\ X1\ X2\ X3) \wedge (\forall X4.(m2\_subset\_1\ X4\ k1\_numbers\ k5\_numbers) \Rightarrow (\neg v4\_fomodel4\ X0\ X4\ X1\ X2\ X3))))) \tag{2}$$

Assume the following.

$$\forall X0.((\neg v6\_struct\_0\ X0) \wedge ((v11\_fomodel1\ X0) \wedge (l1\_fomodel1\ X0))) \Rightarrow (\forall X1.(v2\_fomodel4\ X1\ X0) \Leftrightarrow (r1\_tarski\ X1\ (k1\_fomodel4\ X0))) \tag{3}$$

Theorem 1

$$\forall X0.\forall X1.((\neg v6\_struct\_0\ X1) \wedge ((v11\_fomodel1\ X1) \wedge (l1\_fomodel1\ X1))) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k9\_funct\_2\ (k9\_setfam\_1\ (k1\_fomodel4\ X1))\ (k9\_setfam\_1\ (k1\_fomodel4\ X1))))) \Rightarrow (\forall X3.(v2\_fomodel4\ X3\ X1) \Rightarrow (\neg(v3\_fomodel4\ (k1\_tarski\ X0)\ X1\ X2\ X3) \wedge (\forall X4.(m2\_subset\_1\ X4\ k1\_numbers\ k5\_numbers) \Rightarrow (\neg v4\_fomodel4\ X0\ X4\ X1\ X2\ X3)))))$$