l62_fomodel0 (TMW7DZhwuVENFSyVKWrvF8X8DDkPzXHCS3s)

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Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_relat\_1 : \iota \Rightarrow \iota$ be given. Let $k18\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_tarski : \iota \Rightarrow \iota$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_finseq\_1 : \iota \Rightarrow o$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np\_\_1 : \iota$ be given. Let $k3\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $k1\_nat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.(v1\_relat\_1\ X1) \Rightarrow ((X0 \in k1\_relat\_1\ X1) \Leftrightarrow (\neg \forall X2.(\neg k4\_tarski\ X0\ X2 \in X1) \wedge (\neg k4\_tarski\ X2\ X0 \in X1))) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_relat\_1\ X0) \Rightarrow (v1\_relat\_1\ (k18\_finseq\_1\ X0)) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.k4\_tarski\ X0\ X1 = k2\_tarski\ (k2\_tarski\ X0\ X1)\ (k1\_tarski\ X0) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.(r1\_tarski\ X0\ X1) \Leftrightarrow (\forall X2.(X2 \in X0) \Rightarrow (X2 \in X1)) \tag{4}$$

Assume the following.

$$\forall X0.(v1\_relat\_1\ X0) \Rightarrow (\forall X1.(v1\_relat\_1\ X1) \Rightarrow ((X1 = k18\_finseq\_1\ X0) \Leftrightarrow (\forall X2.\forall X3.(k4\_tarski\ X2\ X3 \in X1) \Leftrightarrow ((X2 \in k1\_relat\_1\ X0) \wedge ((X3 \in k1\_relat\_1\ X0) \wedge (\exists X4.((v1\_relat\_1\ X4) \wedge ((v1\_funct\_1\ X4) \wedge (v1\_finseq\_1\ X4))) \wedge ((r1\_xxreal\_0\ np\_\_1\ (k3\_finseq\_1\ X4)) \wedge ((k1\_funct\_1\ X4\ np\_\_1 = X2) \wedge ((k1\_funct\_1\ X4\ (k3\_finseq\_1\ X4) = X3) \wedge (\forall X5.(v7\_ordinal1\ X5) \Rightarrow ((r1\_xxreal\_0\ np\_\_1\ X5) \Rightarrow ((r1\_xxreal\_0\ (k3\_finseq\_1\ X4)\ X5) \vee (k4\_tarski\ (k1\_funct\_1\ X4\ X5)\ (k1\_funct\_1\ X4\ (k1\_nat\_1\ X5\ np\_\_1)) \in X0)))))))))))) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.k2\_tarski\ X0\ X1 = k2\_tarski\ X1\ X0 \tag{6}$$

Theorem 1

$$\forall X0.(v1\_relat\_1\ X0) \Rightarrow (r1\_tarski\ (k1\_relat\_1\ (k18\_finseq\_1\ X0))\ (k1\_relat\_1\ X0))$$