

l63_fomodel0

(TMZQki2eHLcPNKRpbyvsNw6L2KaMU7CzYvE)

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Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $r1_relat_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k18_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k1_relat_1 : \iota \Rightarrow \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $k9_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k1_nat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. ((v1_relat_1 X1) \wedge ((v1_funct_1 X1) \wedge (v1_finseq_1 X1))) \Rightarrow ((X1 = k9_finseq_1 X0) \Leftrightarrow ((k3_finseq_1 X1 = np_1) \wedge (k1_funct_1 X1 np_1 = X0))) \quad (1)$$

Assume the following.

$$r1_xxreal_0 np_1 np_1 \quad (2)$$

Assume the following.

$$\forall X0. k9_finseq_1 X0 = k5_finseq_1 X0 \quad (3)$$

Assume the following.

$$\forall X0. v1_finseq_1 (k5_finseq_1 X0) \quad (4)$$

Assume the following.

$$\forall X0. (v1_relat_1 (k9_finseq_1 X0)) \wedge (v1_funct_1 (k9_finseq_1 X0)) \quad (5)$$

Assume the following.

$$\forall X0. (v1_relat_1 X0) \Rightarrow (v1_relat_1 (k18_finseq_1 X0)) \quad (6)$$

Assume the following.

$$\forall X0. (v1_relat_1 X0) \Rightarrow (\forall X1. (r1_relat_2 X0 X1) \Leftrightarrow (\forall X2. (X2 \in X1) \Rightarrow (k4_tarski X2 X2 \in X0))) \quad (7)$$

Assume the following.

$$\begin{aligned}
& \forall X0.(v1_relat_1 X0) \Rightarrow (\forall X1.(v1_relat_1 X1) \Rightarrow ((X1 = \\
& \quad k18_finseq_1 X0) \Leftrightarrow (\forall X2.\forall X3.(k4_tarski X2 X3 \in X1) \Leftrightarrow \\
& \quad ((X2 \in k1_relat_1 X0) \wedge ((X3 \in k1_relat_1 X0) \wedge (\exists X4.((v1_relat_1 \\
& \quad X4) \wedge ((v1_funct_1 X4) \wedge (v1_finseq_1 X4)))) \wedge ((r1_xxreal_0 np_1 \\
& \quad (k3_finseq_1 X4) \wedge ((k1_funct_1 X4 np_1 = X2) \wedge ((k1_funct_1 X4 \\
& \quad (k3_finseq_1 X4) = X3) \wedge (\forall X5.(v7_ordinal1 X5) \Rightarrow ((r1_xxreal_0 \\
& \quad np_1 X5) \Rightarrow ((r1_xxreal_0 (k3_finseq_1 X4) X5) \vee (k4_tarski (k1_funct_1 \\
& \quad X4 X5) (k1_funct_1 X4 (k1_nat_1 X5 np_1)) \in X0))))))))))))) \\
& \hspace{20em} (8)
\end{aligned}$$

Theorem 1

$$\forall X0.(v1_relat_1 X0) \Rightarrow (r1_relat_2 (k18_finseq_1 X0) (k1_relat_1 X0))$$