

t39_finseq_4
(TMKoU7RdVH58q1t5qbMAK4zr5tNqSAj4aMR)

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Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_finseq_4 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_relat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k6_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_finseq_4 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k2_finseq_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (v1_relat_1 X1) \Rightarrow (r1_tarski (k10_xtuple_0 (k5_relat_1 X1 X0)) (k10_xtuple_0 X1)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. ((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow ((v1_relat_1 (k5_finseq_4 X0 X1)) \wedge ((v1_funct_1 (k5_finseq_4 X0 X1)) \wedge (v1_finseq_1 (k5_finseq_4 X0 X1)))) \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0. ((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow \\ (\forall X1. (X1 \in k10_xtuple_0 X0) \Rightarrow (\forall X2. ((v1_relat_1 X2) \wedge \\ ((v1_funct_1 X2) \wedge (v1_finseq_1 X2)))) \Rightarrow ((X2 = k5_finseq_4 X0 X1) \Leftrightarrow \\ (\exists X3. (v7_ordinal1 X3) \wedge ((X3 = k6_xcmplx_0 (k4_finseq_4 \\ X0 X1) np_1) \wedge (X2 = k5_relat_1 X0 (k2_finseq_1 X3)))))) \quad (3) \end{aligned}$$

Theorem 1

$$\forall X0. ((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow (\forall X1. (X1 \in k10_xtuple_0 X0) \Rightarrow (r1_tarski (k10_xtuple_0 (k5_finseq_4 X0 X1)) (k10_xtuple_0 X0)))$$