

t93_finseq_3

(TMcpbgGu7QjHfzWR6476mUsUcxYvgJITZ72)

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Let $v2_funct_1 : \iota \Rightarrow o$ be given. Let $k9_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k2_finseq_1 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$(k2_finseq_1\ np_1 = k1_tarski\ np_1) \wedge (k2_finseq_1\ np_2 = k2_tarski\ np_1\ np_2) \tag{1}$$

Assume the following.

$$\forall X0. (v1_relat_1\ (k9_finseq_1\ X0)) \wedge (v1_funct_1\ (k9_finseq_1\ X0)) \tag{2}$$

Assume the following.

$$\forall X0. \forall X1. ((v1_relat_1\ X1) \wedge (v1_funct_1\ X1)) \Rightarrow ((X1 = k9_finseq_1\ X0) \Leftrightarrow ((k9_xtuple_0\ X1 = k2_finseq_1\ np_1) \wedge (k1_funct_1\ X1\ np_1 = X0))) \tag{3}$$

Assume the following.

$$\forall X0. ((v1_relat_1\ X0) \wedge (v1_funct_1\ X0)) \Rightarrow ((v2_funct_1\ X0) \Leftrightarrow (\forall X1. \forall X2. ((X1 \in k9_xtuple_0\ X0) \wedge ((X2 \in k9_xtuple_0\ X0) \wedge (k1_funct_1\ X0\ X1 = k1_funct_1\ X0\ X2)))) \Rightarrow (X1 = X2)) \tag{4}$$

Assume the following.

$$\forall X0. \forall X1. (X1 = k1_tarski\ X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (X2 = X0)) \tag{5}$$

Theorem 1 $\forall X0. v2_funct_1\ (k9_finseq_1\ X0)$.