

t90_finseq_1
(TMNsuxBiTt91cKMUGrvcbys2NVjuAgTC637)

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Let $k4_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k9_finseq_1 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k2_finseq_1 : \iota \Rightarrow \iota$ 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 $k5_finseq_1 : \iota \Rightarrow \iota$ be given. 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 $k9_xtuple_0 : \iota \Rightarrow \iota$ 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.

$$\forall X0. k9_finseq_1 \ X0 = k5_finseq_1 \ X0 \tag{2}$$

Assume the following.

$$\forall X0. ((v1_relat_1 \ X0) \wedge ((v1_funct_1 \ X0) \wedge (v1_finseq_1 \ X0))) \Rightarrow (k4_finseq_1 \ X0 = k9_xtuple_0 \ X0) \tag{3}$$

Assume the following.

$$\forall X0. v1_finseq_1 \ (k5_finseq_1 \ X0) \tag{4}$$

Assume the following.

$$\forall X0. (v1_relat_1 \ (k9_finseq_1 \ X0)) \wedge (v1_funct_1 \ (k9_finseq_1 \ X0)) \tag{5}$$

Assume the following.

$$\forall X0. \forall X1. ((v1_relat_1 \ X1) \wedge (v1_funct_1 \ X1)) \Rightarrow ((X1 = k9_finseq_1 \ X0) \Leftrightarrow ((k9_xtuple_0 \ X1 = k2_finseq_1 \ np_1) \wedge (k1_funct_1 \ X1 \ np_1 = X0))) \tag{6}$$

Assume the following.

$$\forall X0. \forall X1. (X1 = k1_tarski \ X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (X2 = X0)) \tag{7}$$

Theorem 1

$$\forall X0.\forall X1.(X0 \in k4_finseq_1 (k9_finseq_1 X1)) \Rightarrow (X0 = np_1)$$