

t26_finseq_4

(TMLEpxDjv4m11rDzsz4C9MqHns54mW8qsA)

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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 $r2_finseq_4 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k4_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k4_finseq_4 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_finseq_4 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow \\ & (\forall X1.(r2_finseq_4 X0 X1) \Rightarrow (k1_finseq_4 X0 X1 = k4_finseq_4 \\ & \quad X0 X1)) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow \\ & (k4_finseq_1 X0 = k9_xtuple_0 X0) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow (\forall X1.(r2_finseq_4 \\ & X0 X1) \Rightarrow (\forall X2.(X2 = k1_finseq_4 X0 X1) \Leftrightarrow ((X2 \in k9_xtuple_0 X0) \wedge \\ & \quad (k1_funct_1 X0 X2 = X1)))) \end{aligned} \quad (3)$$

Theorem 1

$$\begin{aligned} & \forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow \\ & (\forall X1.(r2_finseq_4 X0 X1) \Rightarrow (\forall X2.(v7_ordinal1 X2) \Rightarrow \\ & (\neg(X2 \in k4_finseq_1 X0) \wedge ((X2 \neq k4_finseq_4 X0 X1) \wedge (k1_funct_1 X0 \\ & \quad X2 = X1)))))) \end{aligned}$$