

t46_finseq_4 (TM-
NuPCNV6RP4C89eexXZYewAFgnWtMb5zJa)

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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 $v2_funct_1 : \iota \Rightarrow o$ be given. Let $k6_finseq_4 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r2_finseq_4 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow ((v2_funct_1 X0) \Leftrightarrow (\forall X1.(X1 \in k10_xtuple_0 X0) \Rightarrow (r2_finseq_4 X0 X1))) \quad (1)$$

Assume the following.

$$\forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow (\forall X1.(r2_finseq_4 X0 X1) \Leftrightarrow ((X1 \in k10_xtuple_0 X0) \wedge (\neg X1 \in k10_xtuple_0 (k6_finseq_4 X0 X1)))) \quad (2)$$

Theorem 1

$$\forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow (\forall X1. \neg (X1 \in k10_xtuple_0 X0) \wedge ((v2_funct_1 X0) \wedge (X1 \in k10_xtuple_0 (k6_finseq_4 X0 X1))))$$