

t48_finseq_4
(TMH8ZwYqdomdy573U8kmpasV1rSd9QK3YCH)

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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 $r1_xboole_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_finseq_4 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $r2_finseq_4 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow ((v2_funct_1 X0) \Leftrightarrow \\ (\forall X1.(X1 \in k10_xtuple_0 X0) \Rightarrow (r2_finseq_4 X0 X1))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow \\ (\forall X1.(r2_finseq_4 X0 X1) \Leftrightarrow ((X1 \in k10_xtuple_0 X0) \wedge (r1_xboole_0 \\ (k10_xtuple_0 (k6_finseq_4 X0 X1)) (k1_tarski X1)))) \end{aligned} \quad (2)$$

Theorem 1

$$\begin{aligned} \forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow \\ (\forall X1.((X1 \in k10_xtuple_0 X0) \wedge (v2_funct_1 X0)) \Rightarrow (r1_xboole_0 \\ (k10_xtuple_0 (k6_finseq_4 X0 X1)) (k1_tarski X1))) \end{aligned}$$