

t101_finseq_2 (TMabmCFqu- NUnEETXPh3WBH8yCUWhhgtRbPj)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k10_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_finseq_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k7_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_finseq_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0. (\neg v1_xboole_0 X0) \Rightarrow & (k4_finseq_2 np_2 X0 = ReplSep2 \\ & (toset (\lambda X1 : \iota. m1_subset_1 X1 X0)) (\lambda X1 : \iota. toset (\lambda X2 : \\ & \iota. m1_subset_1 X2 X0)) (\lambda X1 : \iota. \lambda X2 : \iota. True) (\lambda X1 : \\ & \iota. \lambda X2 : \iota. k10_finseq_1 X1 X2)) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. k10_finseq_1 X0 X1 = k7_finseq_1 (k9_finseq_1 X0) (k9_finseq_1 X1) \quad (2)$$

Theorem 1

$$\begin{aligned} \forall X0. (\neg v1_xboole_0 X0) \Rightarrow & (\forall X1. (m1_subset_1 X1 X0) \Rightarrow \\ & (\forall X2. (m1_subset_1 X2 X0) \Rightarrow (k10_finseq_1 X1 X2 \in k4_finseq_2 \\ & np_2 X0))) \end{aligned}$$