

t40_filerec1 (TMH-
wvyd7qzWos1XD2Sp7CDLw2GaY2x61NVV)

October 27, 2020

Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r2_finseq_8 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_finseq_8 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k5_finseq_8 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. (m1_finseq_1 X1 X0) \Rightarrow \\ (\forall X2. (m1_finseq_1 X2 X0) \Rightarrow (r2_finseq_8 X0 (k5_finseq_8 \\ X0 X1 X2) X2 np_1))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (m2_finseq_1 X1 X0) \Leftrightarrow (m1_finseq_1 X1 X0) \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. (m2_finseq_1 X1 X0) \Rightarrow \\ (\forall X2. (m2_finseq_1 X2 X0) \Rightarrow (k9_finseq_8 X0 X1 X2 = k5_finseq_8 \\ X0 X1 X2))) \end{aligned} \quad (3)$$

Theorem 1

$$\begin{aligned} \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. (m1_finseq_1 X1 X0) \Rightarrow \\ (\forall X2. (m1_finseq_1 X2 X0) \Rightarrow (r2_finseq_8 X0 (k9_finseq_8 \\ X0 X1 X2) X2 np_1))) \end{aligned}$$