

t43_filerec1 (TMLvkX- gAvu1UmVzYx4UvF5eEMFiFohhEEpz)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_filerec1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_finseq_8 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r2_finseq_8 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_finseq_8 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $r5_finseq_8 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. (m1_finseq_1 X1 X0) \Rightarrow \\ & (\forall X2. (m1_finseq_1 X2 X0) \Rightarrow (r1_tarski X1 (k9_finseq_8 X0 \\ & X1 X2)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. (m1_finseq_1 X1 X0) \Rightarrow \\ & (\forall X2. (m1_finseq_1 X2 X0) \Rightarrow (\forall X3. (m1_finseq_1 X3 X0) \Rightarrow \\ & ((r1_filerec1 X0 X1 X2 X3) \Leftrightarrow (((r2_finseq_8 X0 (k9_finseq_8 X0 X2 \\ & X3) (k1_finseq_8 X0 X3 X1) np_1) \vee (r1_tarski X1 (k9_finseq_8 X0 \\ & X2 X3))) \wedge (r5_finseq_8 X0 X1 X3)))))) \end{aligned} \quad (2)$$

Theorem 1

$$\begin{aligned} & \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. (m1_finseq_1 X1 X0) \Rightarrow \\ & (\forall X2. (m1_finseq_1 X2 X0) \Rightarrow (\forall X3. (m1_finseq_1 X3 X0) \Rightarrow \\ & ((r1_filerec1 X0 X3 X1 X2) \Rightarrow (r1_filerec1 X0 X3 X3 X2)))) \end{aligned}$$