

t43_fib_num2

(TMYi9ZXQj4cERNTYNiExz9Db8GovY6Mmv6C)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_pre_ff : \iota \Rightarrow \iota$ be given. Let $k1_nat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k7_nat_d : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_nat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $k1_ordinal1 : \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. k2_xboole_0 X0 X1 = k5_xboole_0 X0 (k4_xboole_0 X1 X0) \quad (1)$$

Assume the following.

$$\forall X0. (v7_ordinal1 X0) \Rightarrow (\neg k1_nat_1 X0 np_1 \in k2_finseq_1 X0) \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0. (v7_ordinal1 X0) \Rightarrow (\forall X1. (v7_ordinal1 X1) \Rightarrow ((\\ (r1_xxreal_0 X0 X1) \vee (r1_xxreal_0 X0 (k7_nat_d X1 np_1))) \Rightarrow ((\neg \\ r1_xxreal_0 (k1_nat_1 X1 np_1) X0) \wedge ((r1_xxreal_0 X0 (k1_nat_1 \\ X1 np_1)) \wedge (\neg r1_xxreal_0 (k2_nat_1 (k1_nat_1 X1 np_1) np_1) \\ X0) \wedge ((r1_xxreal_0 X0 (k2_nat_1 (k1_nat_1 X1 np_1) np_1)) \wedge ((\\ \neg r1_xxreal_0 (k1_nat_1 X1 np_2) X0) \wedge (r1_xxreal_0 X0 (k1_nat_1 \\ X1 np_2)))))))))) \quad (3) \end{aligned}$$

Assume the following.

$$\forall X0. \forall X1. (X0 \in X1) \Rightarrow (m1_subset_1 X0 X1) \quad (4)$$

Assume the following.

$$\forall X0. (v7_ordinal1 X0) \Rightarrow (\forall X1. (v7_ordinal1 X1) \Rightarrow ((\neg r1_xxreal_0 X1 X0) \Rightarrow (k1_nat_1 X0 np_1 \in k2_finseq_1 X1))) \quad (5)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (6)$$

Assume the following.

$$\begin{aligned} \forall X0.(m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1.(m1_subset_1 \\ X1 k5_numbers) \Rightarrow ((r1_xxreal_0 X1 X0) \Rightarrow (r1_xxreal_0 (k1_pre_ff \\ X1) (k1_pre_ff X0)))) \end{aligned} \quad (7)$$

Assume the following.

$$\forall X0.((v3_ordinal1 X0) \wedge (v7_ordinal1 X0)) \Rightarrow (v7_ordinal1 \\ (k1_ordinal1 X0)) \quad (8)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (k1_ordinal1 X0 = k1_nat_1 X0 np_1) \quad (9)$$

Assume the following.

$$\forall X0.k1_ordinal1 X0 = k2_xboole_0 X0 (k1_tarski X0) \quad (10)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Leftrightarrow (X0 \in k4_ordinal1) \quad (11)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (v3_ordinal1 X0) \quad (12)$$

Theorem 1

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (r1_xxreal_0 (k1_pre_ff X0) (k1_pre_ff \\ (k1_nat_1 X0 np_1)))$$