

t7_fib_num4
(TMNyk3xA1KA8QL7f1vhBKSxtrAJbfweJJko)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $v1_abian : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $k3_power : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $v1_int_1 : \iota \Rightarrow o$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.(v1_xreal_0 X0) \Rightarrow & ((\neg(\neg r1_xxreal_0 k6_numbers X0) \wedge \\ & (r1_xxreal_0 (k4_xcmplx_0 X0) k6_numbers)) \wedge (\neg(\neg r1_xxreal_0 \\ & (k4_xcmplx_0 X0) k6_numbers) \wedge (r1_xxreal_0 k6_numbers X0))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_xreal_0 X0) \Rightarrow & (\forall X1.(v1_int_1 X1) \Rightarrow ((\neg v1_abian \\ X1) \Rightarrow (k3_power (k4_xcmplx_0 X0) X1 = k4_xcmplx_0 (k3_power X0 X1)))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_xreal_0 X0) \Rightarrow & (\forall X1.(v1_xreal_0 X1) \Rightarrow (\neg(\neg \\ r1_xxreal_0 X0 k6_numbers) \wedge (r1_xxreal_0 (k3_power X0 X1) k6_numbers))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_xreal_0 X0) \Rightarrow & ((v1_xcmplx_0 (k4_xcmplx_0 X0)) \wedge \\ & (v1_xreal_0 (k4_xcmplx_0 X0))) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.((v1_xreal_0 X0) \wedge & (v1_xreal_0 X1)) \Rightarrow (v1_xreal_0 \\ & (k3_power X0 X1)) \end{aligned} \quad (5)$$

Assume the following.

$$\forall X0.(v1_int_1 X0) \Rightarrow (v1_xreal_0 X0) \quad (6)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (v1_int_1 X0) \quad (7)$$

Theorem 1

$$\forall X0.(v7_ordinal1\ X0)\Rightarrow(\forall X1.(v1_xreal_0\ X1)\Rightarrow(\neg(\neg v1_abian\ X0)\wedge((\neg r1_xreal_0\ k6_numbers\ X1)\wedge(r1_xreal_0\ k6_numbers\ (k3_power\ X1\ X0))))))$$