

t4_fib_num2

(TMW97JmJPLZMGQH6gwc18EuHQhaPWCz8B3r)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $v1_int_1 : \iota \Rightarrow o$ be given. Let $k3_power : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $v1_abian : \iota \Rightarrow o$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_int_1 X1) \Rightarrow ((\neg v1_abian X1) \Rightarrow (k3_power (k4_xcmplx_0 X0) X1 = k4_xcmplx_0 (k3_power X0 X1)))) \quad (1)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_int_1 X1) \Rightarrow ((v1_abian X1) \Rightarrow (k3_power (k4_xcmplx_0 X0) X1 = k3_power X0 X1))) \quad (2)$$

Assume the following.

$$\forall X0.((v1_int_1 X0) \wedge (v1_abian X0)) \Rightarrow (k3_power (k4_xcmplx_0 np_1) X0 = np_1) \quad (3)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (k3_xcmplx_0 np_1 X0 = X0) \quad (4)$$

Assume the following.

$$\forall X0.((v1_int_1 X0) \wedge (\neg v1_abian X0)) \Rightarrow (k3_power (k4_xcmplx_0 np_1) X0 = k4_xcmplx_0 np_1) \quad (5)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (k3_xcmplx_0 (k4_xcmplx_0 np_1) X0 = k4_xcmplx_0 X0) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xreal_0 X0) \wedge (v1_xreal_0 X1)) \Rightarrow (v1_xreal_0 (k3_power X0 X1)) \quad (7)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (v1_xcmplx_0 X0) \quad (8)$$

Assume the following.

$$\forall X0.(v1_int_1 X0) \Rightarrow (v1_xreal_0 X0) \quad (9)$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v1_xboole_0 X0) \wedge (v1_xreal_0 X0)) \Rightarrow (\forall X1. \\ & (v1_int_1 X1) \Rightarrow (k3_power (k3_xcmplx_0 (k4_xcmplx_0 np_1) X0) \\ & X1 = k3_xcmplx_0 (k3_power (k4_xcmplx_0 np_1) X1) (k3_power X0 \\ & X1))) \end{aligned}$$