

t6_fib_num2 (TMWP-
bRqk2QrztH7eBBiGVZXmP5GYRm2G1Ed)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. 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 $v1_abian : \iota \Rightarrow o$ be given. Let $k3_power : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_prepower : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_xreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $k9_prepower : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_int_1 X1) \Rightarrow (\forall X2. \\ & (v1_int_1 X2) \Rightarrow (k4_prepower (k4_prepower X0 X1) X2 = k4_prepower \\ & X0 (k3_xcmplx_0 X1 X2)))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.((v1_xreal_0 X0) \wedge (v1_int_1 X1)) \Rightarrow (v1_xreal_0 (k4_prepower X0 X1)) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.((v1_int_1 X0) \wedge (v1_int_1 X1)) \Rightarrow (v1_int_1 (k3_xcmplx_0 X0 X1)) \tag{3}$$

Assume the following.

$$\begin{aligned} & \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (\forall X2. \\ & (v1_xreal_0 X2) \Rightarrow (((\neg r1_xreal_0 X0 k6_numbers) \Rightarrow ((X2 = k3_power \\ & X0 X1) \Leftrightarrow (X2 = k9_prepower X0 X1))) \wedge (((X0 = k6_numbers) \Rightarrow ((r1_xreal_0 \\ & X1 k6_numbers) \vee ((X2 = k3_power X0 X1) \Leftrightarrow (X2 = k6_numbers)))) \wedge ((v1_int_1 \\ & X1) \Rightarrow ((X2 = k3_power X0 X1) \Leftrightarrow (\exists X3.(v1_int_1 X3) \wedge ((X3 = X1) \wedge \\ & (X2 = k4_prepower X0 X3)))))))))) \end{aligned} \tag{4}$$

Assume the following.

$$\forall X0.(v1_int_1 X0) \Rightarrow (v1_xreal_0 X0) \tag{5}$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (v1_int_1 X0) \tag{6}$$

Theorem 1

$$\begin{aligned} & \forall X0.(v7_ordinal1\ X0) \Rightarrow (\forall X1.((\neg v1_xboole_0\ X1) \wedge \\ & (v1_xreal_0\ X1)) \Rightarrow (\forall X2.((v1_int_1\ X2) \wedge (\neg v1_abian\ X2)) \Rightarrow \\ & (k3_power\ (k3_power\ X1\ X2)\ X0 = k3_power\ X1\ (k3_xcmplx_0\ X2\ X0)))) \end{aligned}$$