t8_fib_num3 (TMbeAZ7H1jG9hpaG4Ris6GY5xRgtXHnhr6y)

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Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5\_numbers : \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $k3\_power : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_int\_1 : \iota \Rightarrow o$ be given. Let $k4\_prepower : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_ordinal1 : \iota$ be given. Let $v6\_membered : \iota \Rightarrow o$ be given. Let $v5\_membered : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (\forall X1.(v1\_int\_1\ X1) \Rightarrow (k3\_power\ X0\ X1 = k4\_prepower\ X0\ X1)) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow (\forall X2.(v1\_int\_1\ X2) \Rightarrow (k4\_prepower\ (k3\_xcmplx\_0\ X0\ X1)\ X2 = k3\_xcmplx\_0\ (k4\_prepower\ X0\ X2)\ (k4\_prepower\ X1\ X2)))) \tag{2}$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xreal\_0\ X0) \wedge (v1\_xreal\_0\ X1)) \Rightarrow (v1\_xreal\_0\ (k3\_xcmplx\_0\ X0\ X1)) \tag{4}$$

Assume the following.

$$v6\_membered\ k4\_ordinal1 \tag{5}$$

Assume the following.

$$\forall X0.(v6\_membered\ X0) \Rightarrow (v5\_membered\ X0) \tag{6}$$

Assume the following.

$$\forall X0.(v5\_membered\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ X0) \Rightarrow (v1\_int\_1\ X1)) \tag{7}$$

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ k5\_numbers)\Rightarrow(\forall X1.((\neg v1\_xboole\_0\ X1)\wedge(v1\_xreal\_0\ X1))\Rightarrow(\forall X2.((\neg v1\_xboole\_0\ X2)\wedge(v1\_xreal\_0\ X2))\Rightarrow(k3\_power\ (k3\_xcmplx\_0\ X1\ X2)\ X0 = k3\_xcmplx\_0\ (k3\_power\ X1\ X0)\ (k3\_power\ X2\ X0))))$$