l21_fib_num (TMNBLHZ-paVf76zjwVx1mJAyCZZYqZ48kuza)

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Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_fib\_num : \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $k7\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $k6\_square\_1 : \iota \Rightarrow \iota$ be given. Let $k7\_square\_1 : \iota \Rightarrow \iota$ be given. Let $np\_\_4 : \iota$ be given. Let $np\_\_2 : \iota$ be given. Let $v2\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $np\_\_5 : \iota$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $k5\_numbers : \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np\_\_0 : \iota$ be given. Let $v1\_xcmplx\_0 : \iota \Rightarrow o$ be given. Let $k13\_complex1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xxreal\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow (\forall X2.\ (v1\_xreal\_0\ X2) \Rightarrow (\forall X3.(v1\_xreal\_0\ X3) \Rightarrow (\neg(\neg r1\_xxreal\_0\ X1\ X0) \wedge ((r1\_xxreal\_0\ X2\ X3) \wedge (r1\_xxreal\_0\ (k2\_xcmplx\_0\ X1\ X3)\ (k2\_xcmplx\_0\ X0\ X2)))))))) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow (\forall X2.\ (v1\_xreal\_0\ X2) \Rightarrow (\neg(\neg r1\_xxreal\_0\ X0\ k6\_numbers) \wedge ((\neg r1\_xxreal\_0\ X2\ X1) \wedge (r1\_xxreal\_0\ (k7\_xcmplx\_0\ X2\ X0)\ (k7\_xcmplx\_0\ X1\ X0))))))) \tag{2}$$

Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0) \Rightarrow (X0 = k1\_xboole\_0) \tag{3}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow (\neg(r1\_xxreal\_0\ k6\_numbers\ X0) \wedge ((\neg r1\_xxreal\_0\ X1\ X0) \wedge (r1\_xxreal\_0\ (k6\_square\_1\ X1)\ (k6\_square\_1\ X0))))) \tag{4}$$

Assume the following.

$$k7\_square\_1\ np\_\_4 = np\_\_2 \tag{5}$$

Assume the following.

$$((v2\_xxreal\_0\ np\_\_5)\wedge(m2\_subset\_1\ np\_\_5\ k1\_numbers\ k5\_numbers))\wedge((m1\_subset\_1\ np\_\_5\ k5\_numbers)\wedge(m1\_subset\_1\ np\_\_5\ k1\_numbers)) \tag{6}$$

Assume the following.

$$((v2\_xxreal\_0\ np\_\_4)\wedge(m2\_subset\_1\ np\_\_4\ k1\_numbers\ k5\_numbers))\wedge((m1\_subset\_1\ np\_\_4\ k5\_numbers)\wedge(m1\_subset\_1\ np\_\_4\ k1\_numbers)) \tag{7}$$

Assume the following.

$$((v2\_xxreal\_0\ np\_\_1)\wedge(m2\_subset\_1\ np\_\_1\ k1\_numbers\ k5\_numbers))\wedge((m1\_subset\_1\ np\_\_1\ k5\_numbers)\wedge(m1\_subset\_1\ np\_\_1\ k1\_numbers)) \tag{8}$$

Assume the following.

$$v1\_xboole\_0\ np\_\_0 \tag{9}$$

Assume the following.

$$k7\_xcmplx\_0\ np\_\_2\ np\_\_2 = np\_\_1 \tag{10}$$

Assume the following.

$$k2\_xcmplx\_0\ np\_\_0\ np\_\_2 = np\_\_2 \tag{11}$$

Assume the following.

$$\neg r1\_xxreal\_0\ np\_\_5\ np\_\_4 \tag{12}$$

Assume the following.

$$\neg r1\_xxreal\_0\ np\_\_2\ np\_\_0 \tag{13}$$

Assume the following.

$$\neg r1\_xxreal\_0\ np\_\_1\ np\_\_0 \tag{14}$$

Assume the following.

$$r1\_xxreal\_0\ np\_\_0\ np\_\_4 \tag{15}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers)\Rightarrow(k7\_square\_1\ X0 = k6\_square\_1\ X0) \tag{16}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{17}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xcmplx\_0\ X0)\wedge(v1\_xcmplx\_0\ X1))\Rightarrow(k13\_complex1\ X0\ X1 = k7\_xcmplx\_0\ X0\ X1) \tag{18}$$

Assume the following.

$$\exists X0.(v1\_xboole\_0\ X0)\wedge((v1\_xcmplx\_0\ X0)\wedge((v1\_xxreal\_0\ X0)\wedge(v1\_xreal\_0\ X0))) \tag{19}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xreal\_0\ X0)\wedge(v1\_xreal\_0\ X1))\Rightarrow(v1\_xreal\_0\ (k2\_xcmplx\_0\ X0\ X1)) \tag{20}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(v1\_xreal\_0\ (k6\_square\_1\ X0)) \tag{21}$$

Assume the following.

$$k1\_fib\_num = k13\_complex1\ (k2\_xcmplx\_0\ np\_\_1\ (k7\_square\_1\ np\_\_5))\ np\_\_2 \tag{22}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xxreal\_0\ X0)\wedge(v1\_xxreal\_0\ X1))\Rightarrow((r1\_xxreal\_0\ X0\ X1)\vee(r1\_xxreal\_0\ X1\ X0)) \tag{23}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(v1\_xxreal\_0\ X0) \tag{24}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(v1\_xcmplx\_0\ X0) \tag{25}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers)\Rightarrow(v1\_xreal\_0\ X0) \tag{26}$$

Theorem 1 $\neg r1\_xxreal\_0\ k1\_fib\_num\ np\_\_1$.