# l73_fib_num4 (TMJmLFMqEnDTJ2XZ3TfSz4S5CrU5sqmdwNr)

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Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k13\_complex1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_6 : \iota$ be given. Let $np\_\_10 : \iota$ be given. Let $k3\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7\_square\_1 : \iota \Rightarrow \iota$ be given. Let $np\_\_5 : \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $v1\_xcmplx\_0 : \iota \Rightarrow o$ be given. Let $v2\_xxreal\_0 : \iota \Rightarrow o$ 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 $k1\_xboole\_0 : \iota$ be given. Let $k5\_square\_1 : \iota \Rightarrow \iota$ be given. Let $k3\_square\_1 : \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (k3\_xcmplx\_0\ np\_\_1\ X0 = X0) \tag{1}$$

Assume the following.

$$((v2\_xxreal\_0\ np\_\_5) \wedge (m2\_subset\_1\ np\_\_5\ k1\_numbers\ k5\_numbers)) \wedge ((m1\_subset\_1\ np\_\_5\ k5\_numbers) \wedge (m1\_subset\_1\ np\_\_5\ k1\_numbers)) \tag{2}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{3}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow (k5\_square\_1\ X0 = k3\_square\_1\ X0) \tag{4}$$

Assume the following.

$$\neg r1\_xxreal\_0\ (k13\_complex1\ np\_\_6\ np\_\_10)\ (k3\_xcmplx\_0\ (k6\_xcmplx\_0\ (k7\_square\_1\ np\_\_5)\ np\_\_1)\ (k13\_complex1\ (k7\_square\_1\ np\_\_5)\ (k5\_square\_1\ (k7\_square\_1\ np\_\_5)))) \tag{5}$$

Assume the following.

$$(\neg r1\_xxreal\_0\ (k6\_xcmplx\_0\ (k7\_square\_1\ np\_\_5)\ np\_\_1)\ (k6\_xcmplx\_0\ np\_\_1\ np\_\_1)) \wedge (\neg r1\_xxreal\_0\ (k7\_square\_1\ np\_\_5)\ k6\_numbers) \tag{6}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow (m1\_subset\_1\ (k7\_square\_1\ X0)\ k1\_numbers) \tag{7}$$

Assume the following.

$$k1\_xboole\_0 = the\ (\lambda X0 : \iota.v1\_xboole\_0\ X0) \tag{8}$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0\ X0) \Rightarrow (k3\_square\_1\ X0 = k3\_xcmplx\_0\ X0\ X0) \tag{9}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow (v1\_xcmplx\_0\ X0) \tag{10}$$

**Theorem 1**

$$(\neg r1\_xxreal\_0\ (k13\_complex1\ np\_\_6\ np\_\_10)\ (k3\_xcmplx\_0\ (k6\_xcmplx\_0\ (k7\_square\_1\ np\_\_5)\ np\_\_1)\ (k13\_complex1\ (k3\_xcmplx\_0\ np\_\_1\ (k7\_square\_1\ np\_\_5))\ (k3\_xcmplx\_0\ (k7\_square\_1\ np\_\_5)\ (k7\_square\_1\ np\_\_5)))))) \wedge (\neg r1\_xxreal\_0\ (k7\_square\_1\ np\_\_5)\ k6\_numbers)$$