

## l7\_fib\_num4

(TMRE2SA4GFrgUrMawM5XLw1ThZigGurxqpY)

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Let  $k3\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_fib\_num : \iota$  be given. Let  $k2\_fib\_num : \iota$  be given. Let  $k4\_xcmplx\_0 : \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k6\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k7\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_xcmplx\_0 : \iota \Rightarrow o$  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  $np\_0 : \iota$  be given. Let  $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $c5\_xreal\_0 : \iota$  be given. Let  $k1\_arytm\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $c3\_xreal\_0 : \iota$  be given. Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow (\forall X1.(v1\_xreal\_0 X1) \Rightarrow ((r1\_xxreal\_0 X0 X1) \Rightarrow (r1\_xxreal\_0 (k6\_xcmplx\_0 X0 X1) k6\_numbers))) \quad (1)$$

Assume the following.

$$k4\_xcmplx\_0 (k7\_xcmplx\_0 np\_1 k1\_fib\_num) = k2\_fib\_num \quad (2)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow (\forall X1.(v1\_xreal\_0 X1) \Rightarrow ((r1\_xxreal\_0 X0 X1) \Leftrightarrow (r1\_xxreal\_0 (k4\_xcmplx\_0 X1) (k4\_xcmplx\_0 X0)))) \quad (3)$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0 X0) \Rightarrow (k3\_xcmplx\_0 (k4\_xcmplx\_0 np\_1) X0 = k4\_xcmplx\_0 X0) \quad (4)$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0 X0) \Rightarrow (k6\_xcmplx\_0 X0 X0 = k6\_numbers) \quad (5)$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0 X0) \Rightarrow (k6\_xcmplx\_0 k6\_numbers X0 = k4\_xcmplx\_0 X0) \quad (6)$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0 X0) \Rightarrow (\forall X1.(v1\_xcmplx\_0 X1) \Rightarrow (k7\_xcmplx\_0 X0 (k7\_xcmplx\_0 np\_1 X1) = k3\_xcmplx\_0 X0 X1)) \quad (7)$$

Assume the following.

$$((v2\_xxreal\_0 np\_1) \wedge (m2\_subset\_1 np\_1 k1\_numbers k5\_numbers)) \wedge ((m1\_subset\_1 np\_1 k5\_numbers) \wedge (m1\_subset\_1 np\_1 k1\_numbers)) \quad (8)$$

Assume the following.

$$(m2\_subset\_1 np\_0 k1\_numbers k5\_numbers) \wedge ((m1\_subset\_1 np\_0 k5\_numbers) \wedge (m1\_subset\_1 np\_0 k1\_numbers)) \quad (9)$$

Assume the following.

$$k4\_xcmplx\_0 (k4\_xcmplx\_0 np\_1) = np\_1 \quad (10)$$

Assume the following.

$$k2\_xcmplx\_0 np\_1 (k4\_xcmplx\_0 np\_1) = np\_0 \quad (11)$$

Assume the following.

$$r1\_xxreal\_0 (k4\_xcmplx\_0 np\_1) (k4\_xcmplx\_0 np\_1) \quad (12)$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \quad (13)$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0 X0) \Rightarrow (\forall X1.(v1\_xcmplx\_0 X1) \Rightarrow ((X0 \neq k6\_numbers) \Rightarrow (X1 = k7\_xcmplx\_0 (k3\_xcmplx\_0 X1 X0) X0))) \quad (14)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 X0) \Rightarrow (\forall X1.(v1\_xreal\_0 X1) \Rightarrow (\neg(\neg r1\_xxreal\_0 X1 X0) \wedge (r1\_xxreal\_0 (k6\_xcmplx\_0 X1 X0) k6\_numbers))) \quad (15)$$

Assume the following.

$$\neg r1\_xxreal\_0 k6\_numbers k2\_fib\_num \quad (16)$$

Assume the following.

$$(c5\_xreal\_0 = k4\_xcmplx\_0 np\_1) \wedge (k1\_arytm\_0 c3\_xreal\_0 c5\_xreal\_0 = k6\_numbers) \quad (17)$$

Assume the following.

$$k2\_xcmplx\_0 \ np\_1 \ (k4\_xcmplx\_0 \ np\_1) = k6\_numbers \quad (18)$$

Assume the following.

$$\forall X0.(v1\_xcmplx\_0 \ X0) \Rightarrow (k4\_xcmplx\_0 \ (k4\_xcmplx\_0 \ X0) = X0) \quad (19)$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xcmplx\_0 \ X0) \wedge (v1\_xcmplx\_0 \ X1)) \Rightarrow (v1\_xcmplx\_0 \ (k7\_xcmplx\_0 \ X0 \ X1)) \quad (20)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 \ X0) \Rightarrow ((v1\_xcmplx\_0 \ (k4\_xcmplx\_0 \ X0)) \wedge (v1\_xreal\_0 \ (k4\_xcmplx\_0 \ X0))) \quad (21)$$

Assume the following.

$$v1\_xreal\_0 \ k2\_fib\_num \quad (22)$$

Assume the following.

$$v1\_xreal\_0 \ k1\_fib\_num \quad (23)$$

Assume the following.

$$m1\_subset\_1 \ c5\_xreal\_0 \ k1\_numbers \quad (24)$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xcmplx\_0 \ X0) \wedge (v1\_xcmplx\_0 \ X1)) \Rightarrow (k3\_xcmplx\_0 \ X0 \ X1 = k3\_xcmplx\_0 \ X1 \ X0) \quad (25)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 \ X0) \Rightarrow (v1\_xcmplx\_0 \ X0) \quad (26)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 \ X0 \ k1\_numbers) \Rightarrow (v1\_xreal\_0 \ X0) \quad (27)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 \ X0 \ k1\_numbers) \Rightarrow (v1\_xcmplx\_0 \ X0) \quad (28)$$

**Theorem 1**  $k3\_xcmplx\_0 \ k1\_fib\_num \ k2\_fib\_num = k4\_xcmplx\_0 \ np\_1$ .