

## t5\_fib\_fusc

(TMWZdX51AYKt7ENH67W4LDK8tRvmnMNRPqB)

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Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $v4\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_numbers : \iota$  be given. Let  $v5\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_compos\_1 : \iota \Rightarrow \iota$  be given. Let  $k1\_ami\_3 : \iota$  be given. Let  $v1\_funct\_1 : \iota \Rightarrow o$  be given. Let  $v1\_partfun1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k3\_fib\_fusc : \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k6\_numbers : \iota$  be given. Let  $v5\_memstr\_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $np\_2 : \iota$  be given. Let  $m1\_scm\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k16\_afinsq\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $r1\_extpro\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_extpro\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k10\_ami\_3 : \iota \Rightarrow \iota$  be given. Let  $np\_3 : \iota$  be given. Let  $k3\_pre\_ff : \iota \Rightarrow \iota$  be given. Let  $k8\_extpro\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_6 : \iota$  be given. Let  $k1\_int\_1 : \iota \Rightarrow \iota$  be given. Let  $k5\_power : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $k4\_ordinal1 : \iota$  be given. Let  $v1\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned}
 & \forall X0.((v1\_relat\_1 X0) \wedge ((v4\_relat\_1 X0 k5\_numbers) \wedge ((v5\_relat\_1 \\
 & X0 (u1\_compos\_1 k1\_ami\_3)) \wedge ((v1\_funct\_1 X0) \wedge (v1\_partfun1 X0 \\
 & k5\_numbers)))) \Rightarrow ((r1\_tarski k3\_fib\_fusc X0) \Rightarrow (\forall X1.(m1\_subset\_1 \\
 & X1 k5\_numbers) \Rightarrow ((\neg r1\_xxreal\_0 X1 k6\_numbers) \Rightarrow (\forall X2.(( \\
 & v5\_memstr\_0 X2 np\_2 k1\_ami\_3 k6\_numbers) \wedge (m1\_scm\_1 X2 (k16\_afinsq\_1 \\
 & np\_2 X1 np\_1 k6\_numbers))) \Rightarrow ((r1\_extpro\_1 np\_2 k1\_ami\_3 X0 X2) \wedge \\
 & ((k1\_funct\_1 (k6\_extpro\_1 np\_2 k1\_ami\_3 X0 X2) (k10\_ami\_3 np\_3) = \\
 & k3\_pre\_ff X1) \wedge (k8\_extpro\_1 np\_2 k1\_ami\_3 X0 X2 = k2\_xcmplx\_0 ( \\
 & k3\_xcmplx\_0 np\_6 (k2\_xcmplx\_0 (k1\_int\_1 (k5\_power np\_2 X1)) \\
 & np\_1)) np\_1)))))))))
 \end{aligned} \tag{1}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{2}$$

Assume the following.

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

Assume the following.

$$\forall X0.\forall X1.((v1\_xxreal\_0 X0)\wedge(v1\_xxreal\_0 X1))\Rightarrow( (r1\_xxreal\_0 X0 X1)\vee(r1\_xxreal\_0 X1 X0)) \quad (4)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k4\_ordinal1)\Rightarrow(v7\_ordinal1 X0) \quad (5)$$

Assume the following.

$$\forall X0.(v7\_ordinal1 X0)\Rightarrow(v1\_xxreal\_0 X0) \quad (6)$$

**Theorem 1**

$$\begin{aligned} & \forall X0.(((v1\_relat\_1 X0)\wedge((v4\_relat\_1 X0 k5\_numbers)\wedge((v5\_relat\_1 \\ & X0 (u1\_compos\_1 k1\_ami\_3))\wedge((v1\_funct\_1 X0)\wedge(v1\_partfun1 X0 \\ & k5\_numbers))))))\Rightarrow((r1\_tarski k3\_fib\_fusc X0)\Rightarrow(\forall X1.(m1\_subset\_1 \\ & X1 k5\_numbers)\Rightarrow((\neg r1\_xxreal\_0 X1 k6\_numbers)\Rightarrow(\forall X2.(( \\ & v5\_memstr\_0 X2 np\_2 k1\_ami\_3 k6\_numbers)\wedge(m1\_scm\_1 X2 (k16\_afinsq\_1 \\ & np\_2 X1 np\_1 k6\_numbers))))\Rightarrow((r1\_extpro\_1 np\_2 k1\_ami\_3 X0 X2)\wedge \\ & ((k1\_funct\_1 (k6\_extpro\_1 np\_2 k1\_ami\_3 X0 X2) (k10\_ami\_3 np\_3) = \\ & k3\_pre\_ff X1)\wedge(((X1 = k6\_numbers)\Rightarrow(k8\_extpro\_1 np\_2 k1\_ami\_3 \\ & X0 X2 = np\_1))\wedge((\neg r1\_xxreal\_0 X1 k6\_numbers)\Rightarrow(k8\_extpro\_1 np\_2 \\ & k1\_ami\_3 X0 X2 = k2\_xcmplx\_0 (k3\_xcmplx\_0 np\_6 (k2\_xcmplx\_0 (k1\_int\_1 \\ & (k5\_power np\_2 X1) np\_1)))))))))) \end{aligned}$$