t36_goboard7 (TMNsUaXVfG8vvThTxg8ddRQP7f4i4r4z1BU)

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Let $v3\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $v1\_finseq\_6 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k15\_euclid : \iota \Rightarrow \iota$ be given. Let $np\_\_2 : \iota$ be given. Let $v1\_topreal1 : \iota \Rightarrow o$ be given. Let $v2\_topreal1 : \iota \Rightarrow o$ be given. Let $v1\_goboard5 : \iota \Rightarrow o$ be given. Let $v2\_goboard5 : \iota \Rightarrow o$ be given. Let $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ 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 $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np\_\_1 : \iota$ be given. Let $k3\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $k7\_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_4 : \iota$ be given. Assume the following.

$$\forall X0.((v1\_finseq\_6\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\wedge ((v1\_goboard5\ X0)\wedge(m2\_finseq\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))))\Rightarrow ((\neg r1\_xxreal\_0\ (k3\_finseq\_1\ X0)\ np\_\_4)\Rightarrow(\forall X1.(m2\_subset\_1\ X1\ k1\_numbers\ k5\_numbers)\Rightarrow(\forall X2.(m2\_subset\_1\ X2\ k1\_numbers\ k5\_numbers)\Rightarrow(\neg(r1\_xxreal\_0\ np\_\_1\ X1)\wedge((\neg r1\_xxreal\_0\ X2\ X1)\wedge((\neg r1\_xxreal\_0\ (k3\_finseq\_1\ X0)\ X2)\wedge(k7\_partfun1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ X0\ X1 = k7\_partfun1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ X0\ X2)))))))) \tag{1}$$

Assume the following.

$$\forall X0.((\neg v3\_funct\_1\ X0)\wedge((\neg v1\_xboole\_0\ X0)\wedge((v1\_finseq\_6\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\wedge((v1\_topreal1\ X0)\wedge((v2\_topreal1\ X0)\wedge((v1\_goboard5\ X0)\wedge((v2\_goboard5\ X0)\wedge(m2\_finseq\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))))))))\Rightarrow(\neg r1\_xxreal\_0\ (k3\_finseq\_1\ X0)\ np\_\_4) \tag{2}$$

Theorem 1

$$\forall X0.((\neg v3\_funct\_1\ X0)\wedge((\neg v1\_xboole\_0\ X0)\wedge((v1\_finseq\_6\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\wedge((v1\_topreal1\ X0)\wedge((v2\_topreal1\ X0)\wedge((v1\_goboard5\ X0)\wedge((v2\_goboard5\ X0)\wedge(m2\_finseq\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))))))))\Rightarrow(\forall X1.(m2\_subset\_1\ X1\ k1\_numbers\ k5\_numbers)\Rightarrow(\forall X2.(m2\_subset\_1\ X2\ k1\_numbers\ k5\_numbers)\Rightarrow(\neg(r1\_xxreal\_0\ np\_\_1\ X1)\wedge((\neg r1\_xxreal\_0\ X2\ X1)\wedge((\neg r1\_xxreal\_0\ (k3\_finseq\_1\ X0)\ X2)\wedge(k7\_partfun1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ X0\ X1 = k7\_partfun1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ X0\ X2))))))$$