t38_jordan1j (TM-SeMw8q65hNAYbUQdHrMCeycRzPuB5ehLs)

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Let $v3\_relat\_1 : \iota \Rightarrow o$ be given. Let $v1\_matrix\_1 : \iota \Rightarrow o$ be given. Let $v2\_goboard1 : \iota \Rightarrow o$ be given. Let $v3\_goboard1 : \iota \Rightarrow o$ be given. Let $v4\_goboard1 : \iota \Rightarrow o$ be given. Let $v5\_goboard1 : \iota \Rightarrow o$ be given. Let $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3\_finseq\_2 : \iota \Rightarrow \iota$ 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 $v4\_topreal1 : \iota \Rightarrow o$ be given. Let $r1\_goboard1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k10\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $k3\_jordan3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_finseq\_6 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $k4\_finseq\_4 : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $v2\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $m1\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4\_ordinal1 : \iota$ be given. Let $v1\_finset\_1 : \iota \Rightarrow o$ be given. Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_finseq\_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((v4\_topreal1\ X0) \wedge (m2\_finseq\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \Rightarrow ((X1 \in k10\_xtuple\_0\ X0) \Rightarrow (k3\_jordan3\ X0\ X1 = k3\_finseq\_6\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ X0\ np\_\_1\ (k4\_finseq\_4\ X0\ X1)))) \tag{1}$$

Assume the following.

$$\forall X0.(m2\_subset\_1\ X0\ k1\_numbers\ k5\_numbers) \Rightarrow (\forall X1.(m2\_subset\_1\ X1\ k1\_numbers\ k5\_numbers) \Rightarrow (\forall X2.(m2\_finseq\_1\ X2\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))) \Rightarrow (\forall X3.((\neg v3\_relat\_1\ X3) \wedge ((v1\_matrix\_1\ X3) \wedge ((v2\_goboard1\ X3) \wedge ((v3\_goboard1\ X3) \wedge ((v4\_goboard1\ X3) \wedge ((v5\_goboard1\ X3) \wedge (m2\_finseq\_1\ X3\ (k3\_finseq\_2\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))))))))) \Rightarrow ((r1\_goboard1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ X2\ X3) \Rightarrow (r1\_goboard1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ (k3\_finseq\_6\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ X2\ X0\ X1)\ X3))))) \tag{2}$$

Assume the following.

$$((v2\_xxreal\_0\ np\_\_1)\wedge(m2\_subset\_1\ np\_\_1\ k1\_numbers\ k5\_numbers))\wedge((m1\_subset\_1\ np\_\_1\ k5\_numbers)\wedge(m1\_subset\_1\ np\_\_1\ k1\_numbers)) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1\_xboole\_0\ X0)\wedge((\neg v1\_xboole\_0\ X1)\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0))))\Rightarrow(\forall X2.(m2\_subset\_1\ X2\ X0\ X1)\Leftrightarrow(m1\_subset\_1\ X2\ X1)) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.(m2\_finseq\_1\ X1\ X0)\Leftrightarrow(m1\_finseq\_1\ X1\ X0) \tag{5}$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{6}$$

Assume the following.

$$\neg v1\_finset\_1\ k4\_ordinal1 \tag{7}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_finseq\_1\ X1\ X0)\Rightarrow((v1\_relat\_1\ X1)\wedge((v1\_funct\_1\ X1)\wedge(v1\_finseq\_1\ X1))) \tag{8}$$

Assume the following.

$$m1\_subset\_1\ k5\_numbers\ (k1\_zfmisc\_1\ k1\_numbers) \tag{9}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_relat\_1\ X0)\wedge((v1\_funct\_1\ X0)\wedge(v1\_finseq\_1\ X0)))\Rightarrow(m1\_subset\_1\ (k4\_finseq\_4\ X0\ X1)\ k5\_numbers) \tag{10}$$

Assume the following.

$$\forall X0.(v1\_finset\_1\ X0)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0))\Rightarrow(v1\_finset\_1\ X1)) \tag{11}$$

Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0)\Rightarrow(v1\_finset\_1\ X0) \tag{12}$$

Theorem 1

$$\forall X0.((\neg v3\_relat\_1\ X0)\wedge((v1\_matrix\_1\ X0)\wedge((v2\_goboard1\ X0)\wedge((v3\_goboard1\ X0)\wedge((v4\_goboard1\ X0)\wedge((v5\_goboard1\ X0)\wedge(m2\_finseq\_1\ X0\ (k3\_finseq\_2\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))))))))\Rightarrow(\forall X1.((v4\_topreal1\ X1)\wedge(m2\_finseq\_1\ X1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))\Rightarrow((r1\_goboard1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ X1\ X0)\Rightarrow(\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\Rightarrow((X2\in k10\_xtuple\_0\ X1)\Rightarrow(r1\_goboard1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ (k3\_jordan3\ X1\ X2)\ X0)))))$$