t18_jordan1a (TMYvmjDF4RFQKeAfPCtkLf9PJ9ShNiHXTGx)

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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 $v3\_relat\_1 : \iota \Rightarrow o$ 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 $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np\_\_1 : \iota$ be given. Let $k1\_matrix\_1 : \iota \Rightarrow \iota$ be given. Let $k3\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $k17\_euclid : \iota \Rightarrow \iota$ be given. Let $k3\_matrix\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ 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 $k13\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $v3\_ordinal1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_finseq\_1 : \iota \Rightarrow o$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xxreal\_0\ X1) \Rightarrow (\forall X2.\ (v1\_xxreal\_0\ X2) \Rightarrow (((r1\_xxreal\_0\ X0\ X1) \wedge (r1\_xxreal\_0\ X1\ X2)) \Rightarrow\ (r1\_xxreal\_0\ X0\ X2)))) \tag{1}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k5\_numbers) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ k5\_numbers) \Rightarrow (\forall X2.((v1\_matrix\_1\ X2) \wedge (m2\_finseq\_1\ X2\ (k3\_finseq\_2\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))) \Rightarrow (((v2\_goboard1\ X2) \wedge ((r1\_xxreal\_0\ np\_\_1\ X0) \wedge ((r1\_xxreal\_0\ X0\ (k1\_matrix\_1\ X2)) \wedge ((r1\_xxreal\_0\ np\_\_1\ X1) \wedge (r1\_xxreal\_0\ X1\ (k3\_finseq\_1\ X2)))))) \Rightarrow (k17\_euclid\ (k3\_matrix\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\ X2\ X1\ X0) = k17\_euclid\ (k3\_matrix\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ X2\ X1\ np\_\_1))))) \tag{2}$$

Assume the following.

$$\forall X0.(m2\_subset\_1\ X0\ k1\_numbers\ k5\_numbers)\Rightarrow(\forall X1.(m2\_subset\_1\ X1\ k1\_numbers\ k5\_numbers)\Rightarrow(\forall X2.(m2\_subset\_1\ X2\ k1\_numbers\ k5\_numbers)\Rightarrow(\forall X3.((\neg v3\_relat\_1\ X3)\wedge((v1\_matrix\_1\ X3)\wedge((v2\_goboard1\ X3)\wedge((v3\_goboard1\ X3)\wedge((v4\_goboard1\ X3)\wedge((v5\_goboard1\ X3)\wedge(m2\_finseq\_1\ X3\ (k3\_finseq\_2\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))))))))\Rightarrow(((r1\_xxreal\_0\ np\_\_1\ X0)\wedge((r1\_xxreal\_0\ X0\ (k1\_matrix\_1\ X3))\wedge((r1\_xxreal\_0\ np\_\_1\ X1)\wedge((r1\_xxreal\_0\ X1\ X2)\wedge(r1\_xxreal\_0\ X2\ (k3\_finseq\_1\ X3))))))\Rightarrow(r1\_xxreal\_0\ (k17\_euclid\ (k3\_matrix\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ X3\ X1\ X0))\ (k17\_euclid\ (k3\_matrix\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ X3\ X2\ X0)))))))) \tag{3}$$

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.

$$\forall X0.k3\_finseq\_2\ X0 = k13\_finseq\_1\ X0 \tag{7}$$

Assume the following.

$$(\neg v1\_xboole\_0\ k4\_ordinal1)\wedge(v3\_ordinal1\ k4\_ordinal1) \tag{8}$$

Assume the following.

$$\neg v1\_xboole\_0\ k1\_numbers \tag{9}$$

Assume the following.

$$\forall X0.\forall X1.(m2\_finseq\_1\ X1\ X0)\Rightarrow((v1\_funct\_1\ X1)\wedge((v1\_finseq\_1\ X1)\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ X0))))) \tag{10}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_finseq\_1\ X1\ X0)\Rightarrow((v1\_relat\_1\ X1)\wedge((v1\_funct\_1\ X1)\wedge(v1\_finseq\_1\ X1))) \tag{11}$$

Assume the following.

$$m1\_subset\_1\ k5\_numbers\ (k1\_zfmisc\_1\ k1\_numbers) \tag{12}$$

Assume the following.

$$\forall X0.((v1\_relat\_1\ X0)\wedge((v1\_funct\_1\ X0)\wedge(v1\_finseq\_1\ X0)))\Rightarrow (m2\_subset\_1\ (k3\_finseq\_1\ X0)\ k1\_numbers\ k5\_numbers) \tag{13}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k4\_ordinal1)\Rightarrow(v7\_ordinal1\ X0) \tag{14}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0)\Rightarrow(v1\_xxreal\_0\ X0) \tag{15}$$

Theorem 1

$$\forall X0.(m2\_subset\_1\ X0\ k1\_numbers\ k5\_numbers)\Rightarrow(\forall X1.(m2\_subset\_1\ X1\ k1\_numbers\ k5\_numbers)\Rightarrow(\forall X2.(m2\_subset\_1\ X2\ k1\_numbers\ k5\_numbers)\Rightarrow(\forall X3.(m2\_subset\_1\ X3\ k1\_numbers\ k5\_numbers)\Rightarrow(\forall X4.((\neg v3\_relat\_1\ X4)\wedge((v1\_matrix\_1\ X4)\wedge((v2\_goboard1\ X4)\wedge((v3\_goboard1\ X4)\wedge((v4\_goboard1\ X4)\wedge((v5\_goboard1\ X4)\wedge(m2\_finseq\_1\ X4\ (k3\_finseq\_2\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))))))))\Rightarrow(((r1\_xxreal\_0\ np\_\_1\ X0)\wedge((r1\_xxreal\_0\ X0\ (k1\_matrix\_1\ X4))\wedge((r1\_xxreal\_0\ np\_\_1\ X1)\wedge((r1\_xxreal\_0\ X1\ (k1\_matrix\_1\ X4))\wedge((r1\_xxreal\_0\ np\_\_1\ X2)\wedge((r1\_xxreal\_0\ X2\ X3)\wedge(r1\_xxreal\_0\ X3\ (k3\_finseq\_1\ X4))))))))\Rightarrow(r1\_xxreal\_0\ (k17\_euclid\ (k3\_matrix\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ X4\ X2\ X0))\ (k17\_euclid\ (k3\_matrix\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ X4\ X3\ X1))))))))$$