

# t9\_jordan1g (TMYpabnWFnCXPvffCZMm- cPGHDY87KXmPnta)

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Let  $v1\_zfmisc\_1 : \iota \Rightarrow o$  be given. Let  $v1\_topreal1 : \iota \Rightarrow o$  be given. Let  $v2\_topreal1 : \iota \Rightarrow o$  be given. Let  $v2\_goboard5 : \iota \Rightarrow o$  be given. Let  $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k15\_euclid : \iota \Rightarrow \iota$  be given. Let  $np\_2 : \iota$  be given. Let  $k7\_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k20\_pscomp\_1 : \iota \Rightarrow \iota$  be given. Let  $k3\_topreal1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_finseq\_1 : \iota \Rightarrow \iota$  be given. Let  $k21\_pscomp\_1 : \iota \Rightarrow \iota$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k17\_euclid : \iota \Rightarrow \iota$  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  $m1\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k4\_ordinal1 : \iota$  be given. Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $v1\_xxreal\_0 : \iota \Rightarrow o$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v1\_zfmisc\_1 X0) \wedge ((v1\_topreal1 X0) \wedge ((v2\_topreal1 \\ & X0) \wedge ((v2\_goboard5 X0) \wedge (m2\_finseq\_1 X0 (u1\_struct\_0 (k15\_euclid \\ & np\_2)))))) \Rightarrow (\neg (((k7\_partfun1 (u1\_struct\_0 (k15\_euclid np\_2)) \\ & X0 np\_1 \neq k20\_pscomp\_1 (k3\_topreal1 np\_2 X0)) \wedge (k7\_partfun1 ( \\ & u1\_struct\_0 (k15\_euclid np\_2)) X0 (k3\_finseq\_1 X0) \neq k20\_pscomp\_1 \\ & (k3\_topreal1 np\_2 X0))) \vee ((k7\_partfun1 (u1\_struct\_0 (k15\_euclid \\ & np\_2)) X0 np\_1 \neq k21\_pscomp\_1 (k3\_topreal1 np\_2 X0)) \wedge (k7\_partfun1 \\ & (u1\_struct\_0 (k15\_euclid np\_2)) X0 (k3\_finseq\_1 X0) \neq k21\_pscomp\_1 \\ & (k3\_topreal1 np\_2 X0)))) \wedge (r1\_xxreal\_0 (k17\_euclid (k21\_pscomp\_1 \\ & (k3\_topreal1 np\_2 X0))) (k17\_euclid (k20\_pscomp\_1 (k3\_topreal1 \\ & np\_2 X0)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & ((v2\_xxreal\_0 np\_2) \wedge (m2\_subset\_1 np\_2 k1\_numbers k5\_numbers)) \wedge \\ & ((m1\_subset\_1 np\_2 k5\_numbers) \wedge (m1\_subset\_1 np\_2 k1\_numbers)) \end{aligned} \tag{2}$$

Assume the following.

$$\forall X0. \forall X1. (m2\_finseq\_1 X1 X0) \Leftrightarrow (m1\_finseq\_1 X1 X0) \tag{3}$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.((v7\_ordinal1 X0)\wedge(m1\_finseq\_1 X1 (u1\_struct\_0 (k15\_euclid X0))))\Rightarrow(m1\_subset\_1 (k3\_topreal1 X0 X1) (k1\_zfmisc\_1 (u1\_struct\_0 (k15\_euclid X0)))) \quad (5)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 (k1\_zfmisc\_1 (u1\_struct\_0 (k15\_euclid np\_2))))\Rightarrow(m1\_subset\_1 (k20\_pscomp\_1 X0) (u1\_struct\_0 (k15\_euclid np\_2))) \quad (6)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2)))\Rightarrow(m1\_subset\_1 (k17\_euclid X0) k1\_numbers) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.((v1\_xxreal\_0 X0)\wedge(v1\_xxreal\_0 X1))\Rightarrow((r1\_xxreal\_0 X0 X1)\vee(r1\_xxreal\_0 X1 X0)) \quad (8)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k4\_ordinal1)\Rightarrow(v7\_ordinal1 X0) \quad (9)$$

Assume the following.

$$\forall X0.(v1\_xreal\_0 X0)\Rightarrow(v1\_xxreal\_0 X0) \quad (10)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k1\_numbers)\Rightarrow(v1\_xreal\_0 X0) \quad (11)$$

**Theorem 1**

$$\begin{aligned} & \forall X0.((\neg v1\_zfmisc\_1 X0)\wedge((v1\_topreal1 X0)\wedge((v2\_topreal1 X0)\wedge((v2\_goboard5 X0)\wedge(m2\_finseq\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2)))))))\Rightarrow(\neg(((k7\_partfun1 (u1\_struct\_0 (k15\_euclid np\_2)) X0 np\_1\neq k20\_pscomp\_1 (k3\_topreal1 np\_2 X0))\wedge(k7\_partfun1 (u1\_struct\_0 (k15\_euclid np\_2)) X0 (k3\_finseq\_1 X0)\neq k20\_pscomp\_1 (k3\_topreal1 np\_2 X0)))\vee((k7\_partfun1 (u1\_struct\_0 (k15\_euclid np\_2)) X0 np\_1\neq k21\_pscomp\_1 (k3\_topreal1 np\_2 X0))\wedge(k7\_partfun1 (u1\_struct\_0 (k15\_euclid np\_2)) X0 (k3\_finseq\_1 X0)\neq k21\_pscomp\_1 (k3\_topreal1 np\_2 X0))))\wedge(k20\_pscomp\_1 (k3\_topreal1 np\_2 X0) = k21\_pscomp\_1 (k3\_topreal1 np\_2 X0))) \end{aligned}$$