

# t43\_jordan1j (TMTXte- mUX5NVSMKmeEViJxThsS9waFgmncl)

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Let  $v4\_topreal1 : \iota \Rightarrow o$  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  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k3\_topreal1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_finseq\_1 : \iota \Rightarrow \iota$  be given. Let  $k3\_jordan3 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k2\_jordan3 : \iota \Rightarrow \iota \Rightarrow \iota$  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. Let  $k3\_finseq\_5 : \iota \Rightarrow \iota$  be given. Let  $k4\_finseq\_5 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $m1\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k5\_numbers : \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0.(m2\_finseq\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\ & ((v4\_topreal1 X0) \Rightarrow (\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 ( \\ & k15\_euclid np\_2)))) \Rightarrow (((X1 \in k3\_topreal1 np\_2 X0) \wedge (k1\_funct\_1 \\ & X0 np\_1 \in k3\_topreal1 np\_2 (k2\_jordan3 X0 X1))) \Rightarrow (k1\_funct\_1 X0 \\ & np\_1 = X1)))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1\_relat\_1 X0) \wedge ((v1\_funct\_1 X0) \wedge (v1\_finseq\_1 X0))) \Rightarrow \\ & ((k1\_funct\_1 X0 np\_1 = k1\_funct\_1 (k3\_finseq\_5 X0) (k3\_finseq\_1 \\ & X0)) \wedge (k1\_funct\_1 X0 (k3\_finseq\_1 X0) = k1\_funct\_1 (k3\_finseq\_5 \\ & X0) np\_1)) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0.(m2\_finseq\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\ & (k3\_topreal1 np\_2 X0 = k3\_topreal1 np\_2 (k4\_finseq\_5 (u1\_struct\_0 \\ & (k15\_euclid np\_2)) X0)) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} & \forall X0.(m2\_finseq\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\ & (\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 (k15\_euclid np\_2))) \Rightarrow \\ & (((v4\_topreal1 X0) \wedge (X1 \in k3\_topreal1 np\_2 X0)) \Rightarrow (k2\_jordan3 ( \\ & k4\_finseq\_5 (u1\_struct\_0 (k15\_euclid np\_2)) X0) X1 = k4\_finseq\_5 \\ & (u1\_struct\_0 (k15\_euclid np\_2)) (k3\_jordan3 X0 X1)))) \end{aligned} \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.(m2\_finseq\_1 X1 X0)\Leftrightarrow(m1\_finseq\_1 X1 X0) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.(m1\_finseq\_1 X1 X0)\Rightarrow(k4\_finseq\_5 X0 X1 = k3\_finseq\_5 X1) \quad (6)$$

Assume the following.

$$\forall X0.((v4\_topreal1 X0)\wedge(m1\_finseq\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))))\Rightarrow(v4\_topreal1 (k3\_finseq\_5 X0)) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.(m2\_finseq\_1 X1 X0)\Rightarrow((v1\_funct\_1 X1)\wedge((v1\_finseq\_1 X1)\wedge(m1\_subset\_1 X1 (k1\_zfmisc\_1 (k2\_zfmisc\_1 k5\_numbers X0)))))) \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.(m1\_finseq\_1 X1 X0)\Rightarrow((v1\_relat\_1 X1)\wedge((v1\_funct\_1 X1)\wedge(v1\_finseq\_1 X1))) \quad (9)$$

Assume the following.

$$\forall X0.\forall X1.(m1\_finseq\_1 X1 X0)\Rightarrow(m2\_finseq\_1 (k4\_finseq\_5 X0 X1) X0) \quad (10)$$

Assume the following.

$$\forall X0.\forall X1.((m1\_finseq\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2)))\wedge(m1\_subset\_1 X1 (u1\_struct\_0 (k15\_euclid np\_2))))\Rightarrow(m2\_finseq\_1 (k3\_jordan3 X0 X1) (u1\_struct\_0 (k15\_euclid np\_2))) \quad (11)$$

**Theorem 1**

$$\forall X0.((v4\_topreal1 X0)\wedge(m2\_finseq\_1 X0 (u1\_struct\_0 (k15\_euclid np\_2))))\Rightarrow(\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 (k15\_euclid np\_2))))\Rightarrow(((X1 \in k3\_topreal1 np\_2 X0)\wedge(k1\_funct\_1 X0 (k3\_finseq\_1 X0) \in k3\_topreal1 np\_2 (k3\_jordan3 X0 X1)))\Rightarrow(k1\_funct\_1 X0 (k3\_finseq\_1 X0) = X1)))$$