

t11_jordan3 (TMTKNSP- KTi6tzGLpasHU2Dv5etVeepMKCKt)

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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 $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k1_jordan3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k1_nat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_topreal1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v5_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow (\forall X2. \\ & (m2_finseq_1 X2 (u1_struct_0 (k15_euclid X0))) \Rightarrow (((r1_xxreal_0 \\ & np_1 X1) \wedge (r1_xxreal_0 (k1_nat_1 X1 np_1) (k3_finseq_1 X2))) \Rightarrow \\ & ((k7_partfun1 (u1_struct_0 (k15_euclid X0)) X2 X1 \in k2_topreal1 \\ & X0 X2 X1) \wedge (k7_partfun1 (u1_struct_0 (k15_euclid X0)) X2 (k1_nat_1 \\ & X1 np_1) \in k2_topreal1 X0 X2 X1)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.(m2_finseq_1 X0 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\ & (\forall X1.(m1_subset_1 X1 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\ & ((X1 \in k2_topreal1 np_2 X0 np_1) \Rightarrow (k1_jordan3 X0 X1 = np_1))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 np_2) \wedge (m2_subset_1 np_2 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_2 k5_numbers) \wedge (m1_subset_1 np_2 k1_numbers)) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 np_1) \wedge (m2_subset_1 np_1 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_1 k5_numbers) \wedge (m1_subset_1 np_1 k1_numbers)) \end{aligned} \tag{4}$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_1 = np_2 \quad (5)$$

Assume the following.

$$r1_xxreal_0 \ np_1 \ np_1 \quad (6)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.((v7_ordinal1 \ X0)\wedge(m1_subset_1 \ X1 \ k5_numbers))\Rightarrow (k1_nat_1 \ X0 \ X1 = k2_xcmplx_0 \ X0 \ X1) \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.(m2_finseq_1 \ X1 \ X0)\Rightarrow((v1_funct_1 \ X1)\wedge((v1_finseq_1 \ X1)\wedge(m1_subset_1 \ X1 \ (k1_zfmisc_1 \ (k2_zfmisc_1 \ k5_numbers \ X0)))))) \quad (9)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((v1_relat_1 \ X1)\wedge((v5_relat_1 \ X1 \ X0)\wedge(v1_funct_1 \ X1)))\Rightarrow(m1_subset_1 \ (k7_partfun1 \ X0 \ X1 \ X2) \ X0) \quad (10)$$

Assume the following.

$$\forall X0.(m1_subset_1 \ X0 \ k4_ordinal1)\Rightarrow(v7_ordinal1 \ X0) \quad (11)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1_subset_1 \ X2 \ (k1_zfmisc_1 \ (k2_zfmisc_1 \ X0 \ X1)))\Rightarrow((v4_relat_1 \ X2 \ X0)\wedge(v5_relat_1 \ X2 \ X1)) \quad (12)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1_subset_1 \ X2 \ (k1_zfmisc_1 \ (k2_zfmisc_1 \ X0 \ X1)))\Rightarrow(v1_relat_1 \ X2) \quad (13)$$

Theorem 1

$$\begin{aligned} & \forall X0.(m2_finseq_1 \ X0 \ (u1_struct_0 \ (k15_euclid \ np_2)))\Rightarrow \\ & (\forall X1.(m1_subset_1 \ X1 \ (u1_struct_0 \ (k15_euclid \ np_2)))\Rightarrow \\ & ((r1_xxreal_0 \ np_2 \ (k3_finseq_1 \ X0))\Rightarrow(k1_jordan3 \ X0 \ (k7_partfun1 \\ & (u1_struct_0 \ (k15_euclid \ np_2)) \ X0 \ np_1) = np_1))) \end{aligned}$$