

t6_jordan2c (TMWW-
nan8LA2nwXmFtJ3zYWM2PPGxFxBdwUY)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $v5_valued_0 : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_seq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ 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 $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k1_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_numbers : \iota$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v5_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3_valued_0 : \iota \Rightarrow o$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $v6_membered : \iota \Rightarrow o$ be given. Let $v3_membered : \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow \\ (\forall X1.(v7_ordinal1 X1) \Rightarrow ((X1 \in k1_relset_1 k5_numbers X0) \Leftrightarrow \\ ((r1_xxreal_0 np_1 X1) \wedge (r1_xxreal_0 X1 (k3_finseq_1 X0)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. \forall X2. ((v1_relat_1 X2) \wedge ((v1_funct_1 \\ X2) \wedge (v1_finseq_1 X2))) \Rightarrow (\neg(k10_xtuple_0 X2 = k2_tarski X0 X1) \wedge \\ ((k3_finseq_1 X2 = np_2) \wedge ((\neg(k1_funct_1 X2 np_1 = X0) \wedge (k1_funct_1 \\ X2 np_2 = X1)) \wedge (\neg(k1_funct_1 X2 np_1 = X1) \wedge (k1_funct_1 X2 np_2 = \\ X0)))))) \end{aligned} \quad (2)$$

Assume the following.

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

Assume the following.

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

Assume the following.

$$r1_xxreal_0 \ np_2 \ np_2 \tag{5}$$

Assume the following.

$$\neg r1_xxreal_0 \ np_2 \ np_1 \tag{6}$$

Assume the following.

$$r1_xxreal_0 \ np_1 \ np_2 \tag{7}$$

Assume the following.

$$r1_xxreal_0 \ np_1 \ np_1 \tag{8}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((\neg v1_xboole_0 \ X0)\wedge((m1_subset_1 \ X1 \ X0)\wedge(m1_subset_1 \ X2 \ X0)))\Rightarrow(k7_domain_1 \ X0 \ X1 \ X2 = k2_tarski \ X1 \ X2) \tag{9}$$

Assume the following.

$$k5_numbers = k4_ordinal1 \tag{10}$$

Assume the following.

$$\forall X0.\forall X1.((v1_relat_1 \ X1)\wedge(v5_relat_1 \ X1 \ X0))\Rightarrow(k2_relset_1 \ X0 \ X1 = k10_xtuple_0 \ X1) \tag{11}$$

Assume the following.

$$\forall X0.\forall X1.((v1_relat_1 \ X0)\wedge((v1_funct_1 \ X0)\wedge(v3_valued_0 \ X0)))\Rightarrow(k1_seq_1 \ X0 \ X1 = k1_funct_1 \ X0 \ X1) \tag{12}$$

Assume the following.

$$\forall X0.\forall X1.((v1_relat_1 \ X1)\wedge(v4_relat_1 \ X1 \ X0))\Rightarrow(k1_relset_1 \ X0 \ X1 = k9_xtuple_0 \ X1) \tag{13}$$

Assume the following.

$$v6_membered \ k4_ordinal1 \tag{14}$$

Assume the following.

$$v3_membered \ k1_numbers \tag{15}$$

Assume the following.

$$\neg v1_xboole_0 \ k1_numbers \tag{16}$$

Assume the following.

$$\forall X0.\forall X1.(m2_finseq_1 \ X1 \ X0)\Rightarrow((v1_funct_1 \ X1)\wedge((v1_finseq_1 \ X1)\wedge(m1_subset_1 \ X1 \ (k1_zfmisc_1 \ (k2_zfmisc_1 \ k5_numbers \ X0)))))) \tag{17}$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_relat_1 X0) \wedge ((v4_relat_1 X0 k5_numbers) \wedge ((v5_relat_1 \\ X0 k1_numbers) \wedge (v1_funct_1 X0)))) \Rightarrow ((v5_valued_0 X0) \Leftrightarrow (\forall X1. \\ (m2_subset_1 X1 k1_numbers k5_numbers) \Rightarrow (\forall X2.(m2_subset_1 \\ X2 k1_numbers k5_numbers) \Rightarrow (\neg(X1 \in k9_xtuple_0 X0) \wedge ((X2 \in k9_xtuple_0 \\ X0) \wedge ((\neg r1_xxreal_0 X2 X1) \wedge (r1_xxreal_0 (k1_seq_1 X0 X2) (k1_seq_1 \\ X0 X1)))))))) \end{aligned} \quad (18)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (m1_subset_1 X2 (k1_zfmisc_1 \\ (k2_zfmisc_1 X0 X1))) \Rightarrow ((v4_relat_1 X2 X0) \wedge (v5_relat_1 X2 X1)) \quad (19)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (m1_subset_1 X2 (k1_zfmisc_1 \\ (k2_zfmisc_1 X0 X1))) \Rightarrow (v1_relat_1 X2) \quad (20)$$

Assume the following.

$$\forall X0. \forall X1. (v3_membered X1) \Rightarrow (\forall X2. (m1_subset_1 \\ X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1))) \Rightarrow (v3_valued_0 X2)) \quad (21)$$

Assume the following.

$$\forall X0. (v6_membered X0) \Rightarrow (\forall X1. (m1_subset_1 X1 X0) \Rightarrow \\ (v7_ordinal1 X1)) \quad (22)$$

Theorem 1

$$\begin{aligned} \forall X0. (m1_subset_1 X0 k1_numbers) \Rightarrow (\forall X1. (m1_subset_1 \\ X1 k1_numbers) \Rightarrow (\forall X2. ((v5_valued_0 X2) \wedge (m2_finseq_1 X2 \\ k1_numbers) \Rightarrow (((k2_relset_1 k1_numbers X2 = k7_domain_1 k1_numbers \\ X0 X1) \wedge ((k3_finseq_1 X2 = np_2) \wedge (r1_xxreal_0 X0 X1))) \Rightarrow ((k1_seq_1 \\ X2 np_1 = X0) \wedge (k1_seq_1 X2 np_2 = X1)))))) \end{aligned}$$