

t7_jordan1h

(TMdfaYrpKUu5fADKLHbzAAdrVPJnavkQjfr)

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Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k1_numbers : \iota$ be given. Let $v5_valued_0 : \iota \Rightarrow o$ be given. Let $k7_pre_poly : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_jordan1h : \iota$ be given. Let $r3_orders_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $k4_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $v3_valued_0 : \iota \Rightarrow o$ be given. Let $k1_seq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2_valued_0 : \iota \Rightarrow o$ be given. Let $v1_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_relat_2 : \iota \Rightarrow o$ be given. Let $v4_relat_2 : \iota \Rightarrow o$ be given. Let $v8_relat_2 : \iota \Rightarrow o$ be given. Let $v3_orders_1 : \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_numbers : \iota$ be given. Let $v5_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v6_membered : \iota \Rightarrow o$ be given. Assume the following.

$$r3_orders_1 \ k1_jordan1h \ k1_numbers \tag{1}$$

Assume the following.

$$\forall X0.(m1_subset_1 \ X0 \ k1_numbers) \Rightarrow (\forall X1.(m1_subset_1 \ X1 \ k1_numbers) \Rightarrow ((k4_tarski \ X0 \ X1 \in k1_jordan1h) \Rightarrow (r1_xxreal_0 \ X0 \ X1))) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 \ X0 \ (k1_zfmisc_1 \ X1)) \Leftrightarrow (r1_tarski \ X0 \ X1) \tag{3}$$

Assume the following.

$$\forall X0.(v1_relat_1 \ X0) \Rightarrow (\forall X1.\forall X2.((r3_orders_1 \ X0 \ X1) \wedge (r1_tarski \ X2 \ X1)) \Rightarrow (r3_orders_1 \ X0 \ X2)) \tag{4}$$

Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow ((r1_xxreal_0 X0 X1) \wedge (r1_xxreal_0 X1 X0)) \Rightarrow (X0 = X1)) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.(X0 \in X1) \Rightarrow (m1_subset_1 X0 X1) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.(m2_finseq_1 X1 X0) \Leftrightarrow (m1_finseq_1 X1 X0) \quad (7)$$

Assume the following.

$$\forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow (k4_finseq_1 X0 = k9_xtuple_0 X0) \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v3_valued_0 X0))) \Rightarrow (k1_seq_1 X0 X1 = k1_funct_1 X0 X1) \quad (9)$$

Assume the following.

$$\forall X0.\forall X1.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v2_valued_0 X0))) \Rightarrow (v1_xxreal_0 (k1_funct_1 X0 X1)) \quad (10)$$

Assume the following.

$$(v1_partfun1 k1_jordan1h k1_numbers) \wedge ((v1_relat_2 k1_jordan1h) \wedge ((v4_relat_2 k1_jordan1h) \wedge ((v8_relat_2 k1_jordan1h) \wedge (v3_orders_1 k1_jordan1h)))) \quad (11)$$

Assume the following.

$$\forall X0.\forall X1.(m2_finseq_1 X1 X0) \Rightarrow ((v1_funct_1 X1) \wedge (v1_finseq_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers X0)))) \quad (12)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(((v1_finset_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X0))) \wedge ((v1_partfun1 X2 X0) \wedge ((v1_relat_2 X2) \wedge ((v4_relat_2 X2) \wedge ((v8_relat_2 X2) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X0)))))))) \Rightarrow (m2_finseq_1 (k7_pre_poly X0 X1 X2) X0) \quad (13)$$

Assume the following.

$$\forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow (m1_subset_1 (k4_finseq_1 X0) (k1_zfmisc_1 k5_numbers)) \quad (14)$$

Assume the following.

$$\forall X0.\forall X1.((v1_relat_1 X0)\wedge((v1_funct_1 X0)\wedge(v3_valued_0 X0)))\Rightarrow(m1_subset_1 (k1_seq_1 X0 X1) k1_numbers) \quad (15)$$

Assume the following.

$$m1_subset_1 k1_jordan1h (k1_zfmisc_1 (k2_zfmisc_1 k1_numbers k1_numbers)) \quad (16)$$

Assume the following.

$$\forall X0.\forall X1.((v1_relat_1 X1)\wedge((v5_relat_1 X1 X0)\wedge(v1_funct_1 X1)))\Rightarrow(\forall X2.(X2 \in k9_xtuple_0 X1)\Rightarrow(k7_partfun1 X0 X1 X2 = k1_funct_1 X1 X2)) \quad (17)$$

Assume the following.

$$\begin{aligned} &\forall X0.\forall X1.((v1_finset_1 X1)\wedge(m1_subset_1 X1 (k1_zfmisc_1 X0)))\Rightarrow(\forall X2.((v1_partfun1 X2 X0)\wedge((v1_relat_2 X2)\wedge((v4_relat_2 X2)\wedge((v8_relat_2 X2)\wedge(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X0))))))\Rightarrow((r3_orders_1 X2 X1)\Rightarrow(\forall X3.(m2_finseq_1 X3 X0)\Rightarrow((X3 = k7_pre_poly X0 X1 X2)\Leftrightarrow((k2_relset_1 X0 X3 = X1)\wedge(\forall X4.(v7_ordinal1 X4)\Rightarrow(\forall X5.(v7_ordinal1 X5)\Rightarrow(((X4 \in k4_finseq_1 X3)\wedge(X5 \in k4_finseq_1 X3))\Rightarrow((r1_xxreal_0 X5 X4)\vee((k7_partfun1 X0 X3 X4\neq k7_partfun1 X0 X3 X5)\wedge(k4_tarski (k7_partfun1 X0 X3 X4) (k7_partfun1 X0 X3 X5) \in X2)))))))))) \quad (18) \end{aligned}$$

Assume the following.

$$\begin{aligned} &\forall X0.((v1_relat_1 X0)\wedge((v4_relat_1 X0 k5_numbers)\wedge((v5_relat_1 X0 k1_numbers)\wedge(v1_funct_1 X0))))\Rightarrow((v5_valued_0 X0)\Leftrightarrow(\forall X1.(m2_subset_1 X1 k1_numbers k5_numbers)\Rightarrow(\forall X2.(m2_subset_1 X2 k1_numbers k5_numbers)\Rightarrow(\neg(X1 \in k9_xtuple_0 X0)\wedge((X2 \in k9_xtuple_0 X0)\wedge((\neg r1_xxreal_0 X2 X1)\wedge(r1_xxreal_0 (k1_seq_1 X0 X2) (k1_seq_1 X0 X1)))))))) \quad (19) \end{aligned}$$

Assume the following.

$$\forall X0.((v1_relat_1 X0)\wedge(v3_valued_0 X0))\Rightarrow((v1_relat_1 X0)\wedge(v2_valued_0 X0)) \quad (20)$$

Assume the following.

$$\begin{aligned} &\forall X0.((v1_relat_1 X0)\wedge((v1_funct_1 X0)\wedge(v1_finseq_1 X0)))\Rightarrow \\ &((v1_relat_1 X0)\wedge((v4_relat_1 X0 k5_numbers)\wedge((v1_funct_1 X0)\wedge(v1_finseq_1 X0)))) \quad (21) \end{aligned}$$

Assume the following.

$$\forall X0.(m1_finseq_1 X0 k1_numbers)\Rightarrow(v3_valued_0 X0) \quad (22)$$

Assume the following.

$$\forall X0.\forall X1.(m1_finseq_1 X1 X0)\Rightarrow(v5_relat_1 X1 X0) \quad (23)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))\Rightarrow(v1_relat_1 X2) \quad (24)$$

Assume the following.

$$\forall X0.(v6_membered X0)\Rightarrow(\forall X1.(m1_subset_1 X1 X0)\Rightarrow(v7_ordinal1 X1)) \quad (25)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 (k1_zfmisc_1 k5_numbers))\Rightarrow(v6_membered X0) \quad (26)$$

Theorem 1

$$\forall X0.((v1_finset_1 X0)\wedge(m1_subset_1 X0 (k1_zfmisc_1 k1_numbers)))\Rightarrow(v5_valued_0 (k7_pre_poly k1_numbers X0 k1_jordan1h))$$