

t15_jordan2c (TMb- vxi1MiA7wFKf8g1Z1MS8n99LWSfDyMsW)

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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 $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k15_euclid : \iota \Rightarrow \iota$ be given. Let $r1_jordan2c : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $r3_connsp_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $v6_membered : \iota \Rightarrow o$ be given. Let $l1_rltopsp1 : \iota \Rightarrow o$ be given. Let $l1_rlvect_1 : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v5_rltopsp1 : \iota \Rightarrow o$ be given. Let $v9_rltopsp1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.(l1_pre_topc X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 \\ (u1_struct_0 X0))) \Rightarrow (\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 \\ (u1_struct_0 X0))) \Rightarrow ((r3_connsp_1 X0 X2 X1) \Rightarrow (r1_tarski X1 X2)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.((\neg v1_xboole_0 X0) \wedge ((\neg v1_xboole_0 X1) \wedge \\ (m1_subset_1 X1 (k1_zfmisc_1 X0)))) \Rightarrow (\forall X2.(m2_subset_1 \\ X2 X0 X1) \Leftrightarrow (m1_subset_1 X2 X1)) \end{aligned} \quad (2)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (3)$$

Assume the following.

$$\neg v1_finset_1 k4_ordinal1 \quad (4)$$

Assume the following.

$$v6_membered k4_ordinal1 \quad (5)$$

Assume the following.

$$\forall X0.(l1_rltopsp1 X0) \Rightarrow ((l1_rlvect_1 X0) \wedge (l1_pre_topc X0)) \quad (6)$$

Assume the following.

$$m1_subset_1 \ k5_numbers \ (k1_zfmisc_1 \ k1_numbers) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 \ X1 \ (k1_zfmisc_1 \ X0))\Rightarrow(m1_subset_1 \ (k3_subset_1 \ X0 \ X1) \ (k1_zfmisc_1 \ X0)) \quad (8)$$

Assume the following.

$$\forall X0.(v7_ordinal1 \ X0)\Rightarrow((v5_rltopsp1 \ (k15_euclid \ X0))\wedge (l1_rltopsp1 \ (k15_euclid \ X0))) \quad (9)$$

Assume the following.

$$\begin{aligned} \forall X0.(v7_ordinal1 \ X0)\Rightarrow(\forall X1.(m1_subset_1 \ X1 \ (k1_zfmisc_1 \ (u1_struct_0 \ (k15_euclid \ X0))))\Rightarrow(\forall X2.(m1_subset_1 \ X2 \ (k1_zfmisc_1 \ (u1_struct_0 \ (k15_euclid \ X0))))\Rightarrow((r1_jordan2c \ X0 \ X1 \ X2)\Leftrightarrow((r3_connsp_1 \ (k15_euclid \ X0) \ (k3_subset_1 \ (u1_struct_0 \ (k15_euclid \ X0)) \ X1) \ X2)\wedge(v9_rltopsp1 \ X2 \ (k15_euclid \ X0)))))) \end{aligned} \quad (10)$$

Assume the following.

$$\forall X0.(v1_xboole_0 \ X0)\Rightarrow(\forall X1.(m1_subset_1 \ X1 \ (k1_zfmisc_1 \ X0))\Rightarrow(v1_xboole_0 \ X1)) \quad (11)$$

Assume the following.

$$\forall X0.(v1_xboole_0 \ X0)\Rightarrow(v1_finset_1 \ X0) \quad (12)$$

Assume the following.

$$\forall X0.(v6_membered \ X0)\Rightarrow(\forall X1.(m1_subset_1 \ X1 \ X0)\Rightarrow(v7_ordinal1 \ X1)) \quad (13)$$

Theorem 1

$$\begin{aligned} \forall X0.(m2_subset_1 \ X0 \ k1_numbers \ k5_numbers)\Rightarrow(\forall X1. \\ (m1_subset_1 \ X1 \ (k1_zfmisc_1 \ (u1_struct_0 \ (k15_euclid \ X0))))\Rightarrow \\ (\forall X2.(m1_subset_1 \ X2 \ (k1_zfmisc_1 \ (u1_struct_0 \ (k15_euclid \ X0))))\Rightarrow((r1_jordan2c \ X0 \ X1 \ X2)\Rightarrow(r1_tarski \ X2 \ (k3_subset_1 \ (u1_struct_0 \ (k15_euclid \ X0)) \ X1)))))) \end{aligned}$$