

t26_jordan2c

(TMN9XTPHMmewh1UKsaohHppJAGvM7yt7N3n)

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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 $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_jordan2c : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $k1_pre_topc : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_connsp_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $m1_pre_topc : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $l1_rltopsp1 : \iota \Rightarrow o$ be given. Let $l1_rlvect_1 : \iota \Rightarrow o$ be given. Let $v1_pre_topc : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v5_rltopsp1 : \iota \Rightarrow o$ be given. Let $k3_tarski : \iota \Rightarrow \iota$ be given. Let $r2_jordan2c : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(l1_pre_topc X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0))) \Rightarrow (u1_struct_0 (k1_pre_topc X0 X1) = X1)) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \quad (2)$$

Assume the following.

$$\forall X0.(m2_subset_1 X0 k1_numbers k5_numbers) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 (k15_euclid X0)))) \Rightarrow (m1_connsp_3 (k2_jordan2c X0 X1) (k1_pre_topc (k15_euclid X0) (k3_subset_1 (u1_struct_0 (k15_euclid X0)) X1)))) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1_xboole_0 X0) \wedge ((\neg v1_xboole_0 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X0)))) \Rightarrow (\forall X2.(m2_subset_1 X2 X0 X1) \Leftrightarrow (m1_subset_1 X2 X1)) \quad (4)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (5)$$

Assume the following.

$$(\neg v1_xboole_0 \ k4_ordinal1) \wedge (v3_ordinal1 \ k4_ordinal1) \quad (6)$$

Assume the following.

$$\neg v1_xboole_0 \ k1_numbers \quad (7)$$

Assume the following.

$$\forall X0.(l1_pre_topc \ X0) \Rightarrow (\forall X1.(m1_pre_topc \ X1 \ X0) \Rightarrow (l1_pre_topc \ X1)) \quad (8)$$

Assume the following.

$$\forall X0.(l1_pre_topc \ X0) \Rightarrow (\forall X1.(m1_connsp_3 \ X1 \ X0) \Rightarrow (m1_subset_1 \ X1 \ (k1_zfmisc_1 \ (u1_struct_0 \ X0)))) \quad (9)$$

Assume the following.

$$\forall X0.(l1_rltopsp1 \ X0) \Rightarrow ((l1_rlvect_1 \ X0) \wedge (l1_pre_topc \ X0)) \quad (10)$$

Assume the following.

$$m1_subset_1 \ k5_numbers \ (k1_zfmisc_1 \ k1_numbers) \quad (11)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 \ X1 \ (k1_zfmisc_1 \ X0)) \Rightarrow (m1_subset_1 \ (k3_subset_1 \ X0 \ X1) \ (k1_zfmisc_1 \ X0)) \quad (12)$$

Assume the following.

$$\forall X0.\forall X1.((l1_pre_topc \ X0) \wedge (m1_subset_1 \ X1 \ (k1_zfmisc_1 \ (u1_struct_0 \ X0)))) \Rightarrow ((v1_pre_topc \ (k1_pre_topc \ X0 \ X1)) \wedge (m1_pre_topc \ (k1_pre_topc \ X0 \ X1) \ X0)) \quad (13)$$

Assume the following.

$$\forall X0.(v7_ordinal1 \ X0) \Rightarrow ((v5_rltopsp1 \ (k15_euclid \ X0)) \wedge (l1_rltopsp1 \ (k15_euclid \ X0))) \quad (14)$$

Assume the following.

$$\forall X0.(v7_ordinal1 \ X0) \Rightarrow (\forall X1.(m1_subset_1 \ X1 \ (k1_zfmisc_1 \ (u1_struct_0 \ (k15_euclid \ X0)))) \Rightarrow (k2_jordan2c \ X0 \ X1 = k3_tarski \ (ReplSep \ (toset \ (\lambda X2 : \iota.m1_subset_1 \ X2 \ (k1_zfmisc_1 \ (u1_struct_0 \ (k15_euclid \ X0)))))) \ (\lambda X2 : \iota.r2_jordan2c \ X0 \ X1 \ X2) \ (\lambda X2 : \iota.X2)))) \quad (15)$$

Assume the following.

$$\forall X0.(m1_subset_1 \ X0 \ k4_ordinal1) \Rightarrow (v7_ordinal1 \ X0) \quad (16)$$

Theorem 1

$$\begin{aligned} & \forall X0.(m2_subset_1 X0 k1_numbers k5_numbers) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 (k15_euclid X0)))) \Rightarrow \\ & (r1_tarski (k2_jordan2c X0 X1) (k3_subset_1 (u1_struct_0 (k15_euclid \\ & X0)) X1))) \end{aligned}$$