

t81_jgraph_4 (TMFj-
TYyHT3N8JdYrKEYZsPw1ywrn3E4GWaB)

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Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $k4_struct_0 : \iota \Rightarrow \iota$ be given. Let $k15_euclid : \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k3_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k5_jgraph_4 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ 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 $k13_complex1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k17_euclid : \iota \Rightarrow \iota$ be given. Let $k12_euclid : \iota \Rightarrow \iota$ be given. Let $k18_euclid : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k19_euclid : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k7_square_1 : \iota \Rightarrow \iota$ be given. Let $k4_square_1 : \iota \Rightarrow \iota$ 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 $np_0 : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $l2_algstr_0 : \iota \Rightarrow o$ be given. Let $l2_struct_0 : \iota \Rightarrow o$ be given. Let $l1_algstr_0 : \iota \Rightarrow o$ be given. Let $l1_rlvect_1 : \iota \Rightarrow o$ be given. Let $l1_rltopsp1 : \iota \Rightarrow o$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v5_rltopsp1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\ & (\forall X1.(v1_xreal_0 X1) \Rightarrow (((r1_xxreal_0 X1 (k13_complex1 \\ & (k17_euclid X0) (k12_euclid X0))) \Rightarrow ((r1_xxreal_0 (k18_euclid \\ & X0) k6_numbers) \vee (k3_funct_2 (u1_struct_0 (k15_euclid np_2)) \\ & (u1_struct_0 (k15_euclid np_2)) (k5_jgraph_4 X1) X0 = k19_euclid \\ & (k8_real_1 (k12_euclid X0) (k13_complex1 (k6_xcmplx_0 (k13_complex1 \\ & (k17_euclid X0) (k12_euclid X0)) X1) (k9_real_1 np_1 X1))) (k8_real_1 \\ & (k12_euclid X0) (k7_square_1 (k9_real_1 np_1 (k4_square_1 (k13_complex1 \\ & (k6_xcmplx_0 (k13_complex1 (k17_euclid X0) (k12_euclid X0)) X1) \\ & (k9_real_1 np_1 X1)))))))))) \wedge ((r1_xxreal_0 (k18_euclid X0) k6_numbers) \Rightarrow \\ & (k3_funct_2 (u1_struct_0 (k15_euclid np_2)) (u1_struct_0 (k15_euclid \\ & np_2)) (k5_jgraph_4 X1) X0 = X0))) \end{aligned} \quad (2)$$

Assume the following.

$$(k17_euclid (k4_struct_0 (k15_euclid np_2)) = k6_numbers) \wedge (k18_euclid (k4_struct_0 (k15_euclid np_2)) = k6_numbers) \quad (3)$$

Assume the following.

$$((v2_xreal_0 np_2) \wedge (m2_subset_1 np_2 k1_numbers k5_numbers)) \wedge ((m1_subset_1 np_2 k5_numbers) \wedge (m1_subset_1 np_2 k1_numbers)) \quad (4)$$

Assume the following.

$$v1_xboole_0 np_0 \quad (5)$$

Assume the following.

$$r1_xreal_0 np_0 np_0 \quad (6)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (7)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (8)$$

Assume the following.

$$\forall X0. (l2_algstr_0 X0) \Rightarrow ((l2_struct_0 X0) \wedge (l1_algstr_0 X0)) \quad (9)$$

Assume the following.

$$\forall X0. (l1_rvect_1 X0) \Rightarrow (l2_algstr_0 X0) \quad (10)$$

Assume the following.

$$\forall X0. (l1_rltopsp1 X0) \Rightarrow ((l1_rvect_1 X0) \wedge (l1_pre_topc X0)) \quad (11)$$

Assume the following.

$$\forall X0. (l2_struct_0 X0) \Rightarrow (m1_subset_1 (k4_struct_0 X0) (u1_struct_0 X0)) \quad (12)$$

Assume the following.

$$\forall X0. (v7_ordinal1 X0) \Rightarrow ((v5_rltopsp1 (k15_euclid X0)) \wedge (l1_rltopsp1 (k15_euclid X0))) \quad (13)$$

Assume the following.

$$\forall X0. (m1_subset_1 X0 k4_ordinal1) \Rightarrow (v7_ordinal1 X0) \quad (14)$$

Theorem 1

$$\forall X0. (v1_xreal_0 X0) \Rightarrow (k4_struct_0 (k15_euclid np_2) = k3_funct_2 (u1_struct_0 (k15_euclid np_2)) (u1_struct_0 (k15_euclid np_2)) (k5_jgraph_4 X0) (k4_struct_0 (k15_euclid np_2)))$$