

l113_jordan

(TMXZPvjt22cLnUFGb5kGVPpzJq2kW3xE9bM)

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Let $k1_sppol_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_real_1 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $np_3 : \iota$ be given. Let $k4_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k15_euclid : \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k1_rltopsp1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k19_euclid : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & ((v2_xxreal_0\ np_3) \wedge (m2_subset_1\ np_3\ k1_numbers\ k5_numbers)) \wedge \\ & ((m1_subset_1\ np_3\ k5_numbers) \wedge (m1_subset_1\ np_3\ k1_numbers)) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0\ np_1) \wedge (m2_subset_1\ np_1\ k1_numbers\ k5_numbers)) \wedge \\ & ((m1_subset_1\ np_1\ k5_numbers) \wedge (m1_subset_1\ np_1\ k1_numbers)) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. (m1_subset_1\ X0\ k1_numbers) \Rightarrow (m1_subset_1\ (k1_real_1\ X0)\ k1_numbers) \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0. (v1_xreal_0\ X0) \Rightarrow (\forall X1. (v1_xreal_0\ X1) \Rightarrow (\forall X2. \\ & (v1_xreal_0\ X2) \Rightarrow (\forall X3. (v1_xreal_0\ X3) \Rightarrow (k1_sppol_2\ X0\ X1 \\ & X2\ X3 = k4_subset_1\ (u1_struct_0\ (k15_euclid\ np_2))\ (k4_subset_1 \\ & (u1_struct_0\ (k15_euclid\ np_2))\ (k1_rltopsp1\ (k15_euclid\ np_2)) \\ & (k19_euclid\ X0\ X2)\ (k19_euclid\ X0\ X3))\ (k1_rltopsp1\ (k15_euclid \\ & np_2)\ (k19_euclid\ X0\ X3)\ (k19_euclid\ X1\ X3)))\ (k4_subset_1\ (u1_struct_0 \\ & (k15_euclid\ np_2))\ (k1_rltopsp1\ (k15_euclid\ np_2)\ (k19_euclid \\ & X1\ X3)\ (k19_euclid\ X1\ X2))\ (k1_rltopsp1\ (k15_euclid\ np_2)\ (k19_euclid \\ & X1\ X2)\ (k19_euclid\ X0\ X2)))))) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0. (m1_subset_1\ X0\ k1_numbers) \Rightarrow (v1_xreal_0\ X0) \quad (5)$$

Theorem 1

$$\begin{aligned} k1_sppol_2 (k1_real_1 \ np_1) \ np_1 (k1_real_1 \ np_3) \ np_3 = & k4_subset_1 \\ & (u1_struct_0 (k15_euclid \ np_2)) (k4_subset_1 (u1_struct_0 (\\ & k15_euclid \ np_2)) (k1_rltopsp1 (k15_euclid \ np_2) (k19_euclid \\ & (k1_real_1 \ np_1) (k1_real_1 \ np_3)) (k19_euclid (k1_real_1 \ np_1) \\ & np_3)) (k1_rltopsp1 (k15_euclid \ np_2) (k19_euclid (k1_real_1 \\ & np_1) \ np_3) (k19_euclid \ np_1 \ np_3))) (k4_subset_1 (u1_struct_0 \\ & (k15_euclid \ np_2)) (k1_rltopsp1 (k15_euclid \ np_2) (k19_euclid \\ & np_1 \ np_3) (k19_euclid \ np_1 (k1_real_1 \ np_3))) (k1_rltopsp1 \\ & (k15_euclid \ np_2) (k19_euclid \ np_1 (k1_real_1 \ np_3)) (k19_euclid \\ & (k1_real_1 \ np_1) (k1_real_1 \ np_3)))) \end{aligned}$$