

l122_jordan
(TMTEk36KYEr4xnDDvkwzPQndcoUDRz2odEA)

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Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_rltopsp1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k15_euclid : \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k19_euclid : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $np_3 : \iota$ be given. Let $k1_real_1 : \iota \Rightarrow \iota$ be given. Let $k1_sppol_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. ((r1_tarski X0 X1) \wedge (r1_tarski X1 X2)) \Rightarrow (r1_tarski X0 X2) \quad (1)$$

Assume the following.

$$\begin{aligned} & r1_tarski (k4_subset_1 (u1_struct_0 (k15_euclid np_2)) (k1_rltopsp1 \\ & \quad (k15_euclid np_2) (k19_euclid np_1 np_3) (k19_euclid np_1 \\ & \quad (k1_real_1 np_3)))) (k1_rltopsp1 (k15_euclid np_2) (k19_euclid \\ & \quad np_1 (k1_real_1 np_3)) (k19_euclid (k1_real_1 np_1) (k1_real_1 \\ & \quad np_3)))) (k1_sppol_2 (k1_real_1 np_1) np_1 (k1_real_1 np_3) \\ & \quad np_3) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & r1_tarski (k1_rltopsp1 (k15_euclid np_2) (k19_euclid np_1 np_3) \\ & \quad (k19_euclid np_1 (k1_real_1 np_3))) (k4_subset_1 (u1_struct_0 \\ & \quad (k15_euclid np_2)) (k1_rltopsp1 (k15_euclid np_2) (k19_euclid \\ & \quad np_1 np_3) (k19_euclid np_1 (k1_real_1 np_3)))) (k1_rltopsp1 \\ & \quad (k15_euclid np_2) (k19_euclid np_1 (k1_real_1 np_3)) (k19_euclid \\ & \quad (k1_real_1 np_1) (k1_real_1 np_3)))) \end{aligned} \quad (3)$$

Theorem 1

$$\begin{aligned} & r1_tarski (k1_rltopsp1 (k15_euclid np_2) (k19_euclid np_1 np_3) \\ & \quad (k19_euclid np_1 (k1_real_1 np_3))) (k1_sppol_2 (k1_real_1 \\ & \quad np_1) np_1 (k1_real_1 np_3) np_3) \end{aligned}$$