

t13_sppol_2
(TMFQXkJL3pDa6MskycqdcvxnhciL6eWaJDS)

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Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ 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 $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_topreal1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_numbers : \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $k2_nat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k2_topreal1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k4_ordinal1 : \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k3_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_2) \wedge (m2_subset_1 \ np_2 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_2 \ k5_numbers) \wedge (m1_subset_1 \ np_2 \ k1_numbers)) \end{aligned} \quad (1)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. (v7_ordinal1 \ X0) \Rightarrow (\forall X1. (m2_finseq_1 \ X1 \ (u1_struct_0 \\ & (k15_euclid \ X0))) \Rightarrow (k3_topreal1 \ X0 \ X1 = k3_tarski \ (ReplSep \ (toset \\ & (\lambda X2 : \iota. m1_subset_1 \ X2 \ k5_numbers)) \ (\lambda X2 : \iota. (r1_xxreal_0 \\ & np_1 \ X2) \wedge (r1_xxreal_0 \ (k2_nat_1 \ X2 \ np_1) \ (k3_finseq_1 \ X1))) \\ & (\lambda X2 : \iota. k2_topreal1 \ X0 \ X1 \ X2)))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (X1 = k3_tarski \ X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow \\ & (\exists X3. (X2 \in X3) \wedge (X3 \in X0))) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0. (m1_subset_1 \ X0 \ k4_ordinal1) \Rightarrow (v7_ordinal1 \ X0) \quad (5)$$

Theorem 1

$$\begin{aligned} & \forall X0.(m2_finseq_1 X0 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\ & (\forall X1.(m1_subset_1 X1 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\ & (\neg(X1 \in k3_topreal1 np_2 X0) \wedge (\forall X2.(m1_subset_1 X2 k5_numbers) \Rightarrow \\ & (\neg(r1_xxreal_0 np_1 X2) \wedge ((r1_xxreal_0 (k2_nat_1 X2 np_1) (k3_finseq_1 \\ & X0)) \wedge (X1 \in k2_topreal1 np_2 X0 X2)))))) \end{aligned}$$