

t56_sppol_2 (TM-
Gyzo69RFDV5nM6VDHATbtefW81wTcBQhh)

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Let $k1_topreal1 : \iota$ be given. Let $k1_sppol_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $np_1 : \iota$ be given. Let $v2_xreal_0 : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ 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 $c1_xreal_0 : \iota$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $k4_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k1_rltopsp1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k19_euclid : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & ((v2_xreal_0 \ np_1) \wedge (m2_subset_1 \ np_1 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_1 \ k5_numbers) \wedge (m1_subset_1 \ np_1 \ k1_numbers)) \end{aligned} \quad (1)$$

Assume the following.

$$m1_subset_1 \ k6_numbers \ k1_numbers \quad (2)$$

Assume the following.

$$c1_xreal_0 = k6_numbers \quad (3)$$

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.

$$\begin{aligned}
k1_topreal1 = & k4_subset_1 (u1_struct_0 (k15_euclid\ np_2)) (k4_subset_1 \\
& (u1_struct_0 (k15_euclid\ np_2)) (k1_rltopsp1 (k15_euclid\ np_2) \\
& (k19_euclid\ k6_numbers\ k6_numbers) (k19_euclid\ k6_numbers\ np_1)) \\
& (k1_rltopsp1 (k15_euclid\ np_2) (k19_euclid\ k6_numbers\ np_1) \\
& (k19_euclid\ np_1\ np_1))) (k4_subset_1 (u1_struct_0 (k15_euclid \\
& np_2)) (k1_rltopsp1 (k15_euclid\ np_2) (k19_euclid\ np_1\ np_1) \\
& (k19_euclid\ np_1\ k6_numbers) (k1_rltopsp1 (k15_euclid\ np_2) \\
& (k19_euclid\ np_1\ k6_numbers) (k19_euclid\ k6_numbers\ k6_numbers)))
\end{aligned} \tag{5}$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k1_numbers) \Rightarrow (v1_xreal_0\ X0) \tag{6}$$

Theorem 1 $k1_topreal1 = k1_sppol_2\ k6_numbers\ np_1\ k6_numbers\ np_1$.