

t34_sppol_1
(TMJuw6YoLgg18kiFK47MU9aYFz3YhdVp9Pd)

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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 $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ 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 $v1_topreal1 : \iota \Rightarrow o$ be given. Let $v3_sppol_1 : \iota \Rightarrow o$ 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 $v2_sppol_1 : \iota \Rightarrow o$ be given. Let $k2_topreal1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_sppol_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(m2_subset_1 X0 k1_numbers k5_numbers) \Rightarrow (\forall X1. \\ & (m2_finseq_1 X1 (u1_struct_0 (k15_euclid np_2))) \Rightarrow (((v1_topreal1 \\ & X1) \wedge ((v3_sppol_1 X1) \wedge ((r1_xxreal_0 np_1 X0) \wedge ((r1_xxreal_0 \\ & (k2_nat_1 X0 np_2) (k3_finseq_1 X1)) \wedge (v1_sppol_1 (k2_topreal1 \\ & np_2 X1 X0)))))) \Rightarrow (v2_sppol_1 (k2_topreal1 np_2 X1 (k2_nat_1 \\ & X0 np_1)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.(m2_subset_1 X0 k1_numbers k5_numbers) \Rightarrow (\forall X1. \\ & (m2_finseq_1 X1 (u1_struct_0 (k15_euclid np_2))) \Rightarrow (((v1_topreal1 \\ & X1) \wedge ((v3_sppol_1 X1) \wedge ((r1_xxreal_0 np_1 X0) \wedge ((r1_xxreal_0 \\ & (k2_nat_1 X0 np_2) (k3_finseq_1 X1)) \wedge (v2_sppol_1 (k2_topreal1 \\ & np_2 X1 X0)))))) \Rightarrow (v1_sppol_1 (k2_topreal1 np_2 X1 (k2_nat_1 \\ & X0 np_1)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0.(m2_subset_1 X0 k1_numbers k5_numbers) \Rightarrow (\forall X1. \\ & (m2_finseq_1 X1 (u1_struct_0 (k15_euclid np_2))) \Rightarrow (\neg(v1_topreal1 \\ & X1) \wedge ((\neg v2_sppol_1 (k2_topreal1 np_2 X1 X0)) \wedge (\neg v1_sppol_1 (k2_topreal1 \\ & np_2 X1 X0)))))) \end{aligned} \quad (3)$$

Theorem 1

$$\begin{aligned} & \forall X0.(m2_subset_1 X0 k1_numbers k5_numbers) \Rightarrow (\forall X1. \\ & (m2_finseq_1 X1 (u1_struct_0 (k15_euclid np_2))) \Rightarrow (\neg(v1_topreal1 \\ & X1) \wedge ((v3_sppol_1 X1) \wedge ((r1_xxreal_0 np_1 X0) \wedge ((r1_xxreal_0 \\ & (k2_nat_1 X0 np_2) (k3_finseq_1 X1)) \wedge ((\neg(v2_sppol_1 (k2_topreal1 \\ np_2 X1 X0)) \wedge (v1_sppol_1 (k2_topreal1 np_2 X1 (k2_nat_1 X0 np_1)))))) \wedge \\ & (\neg(v1_sppol_1 (k2_topreal1 np_2 X1 X0)) \wedge (v2_sppol_1 (k2_topreal1 \\ np_2 X1 (k2_nat_1 X0 np_1)))))))))) \end{aligned}$$