

t21_sppol_1 (TMT- BKa1CJ2d8rz4aVycJ5FbH6meHVw2y3kw)

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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 $v2_funct_1 : \iota \Rightarrow o$ 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. Let $v1_zfmisc_1 : \iota \Rightarrow o$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(m2_subset_1 X0 k1_numbers k5_numbers) \Rightarrow (\forall X1. \\ & (m2_finseq_1 X1 (u1_struct_0 (k15_euclid np_2))) \Rightarrow (\neg(v2_funct_1 \\ & X1) \wedge ((r1_xxreal_0 np_1 X0) \wedge ((r1_xxreal_0 (k2_nat_1 X0 np_1) \\ & (k3_finseq_1 X1)) \wedge (v1_zfmisc_1 (k2_topreal1 np_2 X1 X0)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 np_2) \wedge (m2_subset_1 np_2 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_2 k5_numbers) \wedge (m1_subset_1 np_2 k1_numbers)) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((\neg v1_xboole_0 X0) \wedge ((\neg v1_xboole_0 X1) \wedge \\ & (m1_subset_1 X1 (k1_zfmisc_1 X0)))) \Rightarrow (\forall X2. (m2_subset_1 \\ & X2 X0 X1) \Leftrightarrow (m1_subset_1 X2 X1)) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (m2_finseq_1 X1 X0) \Leftrightarrow (m1_finseq_1 X1 X0) \quad (4)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (5)$$

Assume the following.

$$(\neg v1_xboole_0 \ k4_ordinal1) \wedge (v3_ordinal1 \ k4_ordinal1) \quad (6)$$

Assume the following.

$$m1_subset_1 \ k5_numbers \ (k1_zfmisc_1 \ k1_numbers) \quad (7)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((v7_ordinal1 \ X0) \wedge ((m1_finseq_1 \\ & X1 \ (u1_struct_0 \ (k15_euclid \ X0))) \wedge (v7_ordinal1 \ X2))) \Rightarrow (m1_subset_1 \\ & (k2_topreal1 \ X0 \ X1 \ X2) \ (k1_zfmisc_1 \ (u1_struct_0 \ (k15_euclid \ X0)))) \end{aligned} \quad (8)$$

Assume the following.

$$\forall X0. (m1_subset_1 \ X0 \ k4_ordinal1) \Rightarrow (v7_ordinal1 \ X0) \quad (9)$$

Assume the following.

$$\begin{aligned} & \forall X0. (m1_subset_1 \ X0 \ (k1_zfmisc_1 \ (u1_struct_0 \ (k15_euclid \\ & np_2)))) \Rightarrow (((\neg v1_zfmisc_1 \ X0) \wedge (v2_sppol_1 \ X0)) \Rightarrow (\neg v1_sppol_1 \\ & X0)) \end{aligned} \quad (10)$$

Assume the following.

$$\forall X0. (v1_xboole_0 \ X0) \Rightarrow (\forall X1. (m1_subset_1 \ X1 \ (k1_zfmisc_1 \ X0)) \Rightarrow (v1_xboole_0 \ X1)) \quad (11)$$

Theorem 1

$$\begin{aligned} & \forall X0. (m2_subset_1 \ X0 \ k1_numbers \ k5_numbers) \Rightarrow (\forall X1. \\ & (m2_finseq_1 \ X1 \ (u1_struct_0 \ (k15_euclid \ np_2))) \Rightarrow (\neg (v2_funct_1 \\ & X1) \wedge ((r1_xxreal_0 \ np_1 \ X0) \wedge ((r1_xxreal_0 \ (k2_nat_1 \ X0 \ np_1) \\ & (k3_finseq_1 \ X1)) \wedge ((v2_sppol_1 \ (k2_topreal1 \ np_2 \ X1 \ X0)) \wedge (v1_sppol_1 \\ & (k2_topreal1 \ np_2 \ X1 \ X0))))))) \end{aligned}$$