

t49_sprect_2

(TMRi4qsLd8QT9Zx6KzLdy793QnnhMDZpoWZ)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v3_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finseq_6 : \iota \Rightarrow \iota \Rightarrow o$ 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 $v2_topreal1 : \iota \Rightarrow o$ be given. Let $v1_goboard5 : \iota \Rightarrow o$ be given. Let $v2_goboard5 : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $r1_xboole_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_topreal1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_finseq_6 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_finseq_5 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v6_membered : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned}
 & \forall X0.(m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1.(m1_subset_1 \\
 & X1 k5_numbers) \Rightarrow (\forall X2.(m1_subset_1 X2 k5_numbers) \Rightarrow (\forall X3. \\
 & (m1_subset_1 X3 k5_numbers) \Rightarrow (\forall X4. ((\neg v1_xboole_0 X4) \wedge \\
 & ((\neg v3_funct_1 X4) \wedge ((v1_finseq_6 X4 (u1_struct_0 (k15_euclid \\
 & np_2)))) \wedge ((v1_topreal1 X4) \wedge ((v2_topreal1 X4) \wedge ((v1_goboard5 \\
 & X4) \wedge ((v2_goboard5 X4) \wedge (m2_finseq_1 X4 (u1_struct_0 (k15_euclid \\
 & np_2)))))))))) \Rightarrow (((r1_xxreal_0 np_1 X0) \wedge ((r1_xxreal_0 X0 X1) \wedge \\
 & ((r1_xxreal_0 X2 X3) \wedge (r1_xxreal_0 X3 (k3_finseq_1 X4)))))) \Rightarrow ((\\
 & r1_xxreal_0 X2 X1) \vee (((r1_xxreal_0 X0 np_1) \wedge (r1_xxreal_0 (k3_finseq_1 \\
 & X4) X3)) \vee (r1_xboole_0 (k3_topreal1 np_2 (k3_finseq_6 (u1_struct_0 \\
 & (k15_euclid np_2)) X4 X0 X1)) (k3_topreal1 np_2 (k3_finseq_6 \\
 & (u1_struct_0 (k15_euclid np_2)) X4 X3 X2)))))))))
 \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned}
 & \forall X0.(m2_finseq_1 X0 (u1_struct_0 (k15_euclid np_2))) \Rightarrow \\
 & (k3_topreal1 np_2 X0 = k3_topreal1 np_2 (k4_finseq_5 (u1_struct_0 \\
 & (k15_euclid np_2)) X0))
 \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0.(\neg v1_xboole_0 X0) \Rightarrow (\forall X1.(m2_finseq_1 X1 X0) \Rightarrow \\ & (\forall X2.(m1_subset_1 X2 k5_numbers) \Rightarrow (\forall X3.(m1_subset_1 \\ & X3 k5_numbers) \Rightarrow (k3_finseq_6 X0 X1 X2 X3 = k4_finseq_5 X0 (k3_finseq_6 \\ & X0 X1 X3 X2)))))) \end{aligned} \quad (3)$$

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.

$$v6_membered k4_ordinal1 \quad (6)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.(m2_finseq_1 X1 X0) \Rightarrow ((v1_funct_1 X1) \wedge (\\ & (v1_finseq_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers \\ & X0)))))) \end{aligned} \quad (7)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.\forall X3.((\neg v1_xboole_0 X0) \wedge \\ & ((m1_finseq_1 X1 X0) \wedge ((v7_ordinal1 X2) \wedge (v7_ordinal1 X3)))) \Rightarrow \\ & (m2_finseq_1 (k3_finseq_6 X0 X1 X2 X3) X0) \end{aligned} \quad (8)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.(v1_xboole_0 X0) \Rightarrow (\forall X2.(m1_subset_1 \\ & X2 (k1_zfmisc_1 (k2_zfmisc_1 X1 X0))) \Rightarrow (v1_xboole_0 X2)) \end{aligned} \quad (9)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v6_membered X0) \Rightarrow (\forall X1.(m1_subset_1 X1 X0) \Rightarrow \\ & (v7_ordinal1 X1)) \end{aligned} \quad (10)$$

Theorem 1

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1.(m1_subset_1 \\ & X1 k5_numbers) \Rightarrow (\forall X2.(m1_subset_1 X2 k5_numbers) \Rightarrow (\forall X3. \\ & (m1_subset_1 X3 k5_numbers) \Rightarrow (\forall X4.((\neg v1_xboole_0 X4) \wedge \\ & ((\neg v3_funct_1 X4) \wedge ((v1_finseq_6 X4 (u1_struct_0 (k15_euclid \\ & np_2)))) \wedge ((v1_topreal1 X4) \wedge ((v2_topreal1 X4) \wedge ((v1_goboard5 \\ & X4) \wedge ((v2_goboard5 X4) \wedge (m2_finseq_1 X4 (u1_struct_0 (k15_euclid \\ & np_2)))))))))) \Rightarrow (((r1_xxreal_0 np_1 X0) \wedge (r1_xxreal_0 X0 X1) \wedge \\ & ((r1_xxreal_0 X2 X3) \wedge (r1_xxreal_0 X3 (k3_finseq_1 X4)))) \Rightarrow ((\\ & r1_xxreal_0 X2 X1) \vee (((r1_xxreal_0 X0 np_1) \wedge (r1_xxreal_0 (k3_finseq_1 \\ & X4) X3)) \vee (r1_xboole_0 (k3_topreal1 np_2 (k3_finseq_6 (u1_struct_0 \\ & (k15_euclid np_2)) X4 X1 X0)) (k3_topreal1 np_2 (k3_finseq_6 \\ & (u1_struct_0 (k15_euclid np_2)) X4 X3 X2)))))))))) \end{aligned}$$