

t22_sprect_5 (TMPWLrmxVBmzUD- bqcgCVb2Ebt6ZMW8uBdcU)

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Let $v3_funct.1 : \iota \Rightarrow o$ be given. Let $v1_xboole.0 : \iota \Rightarrow o$ 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 $k7_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k18_pscomp.1 : \iota \Rightarrow \iota$ be given. Let $k3_topreal1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_xxreal.0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_finseq.4 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k19_pscomp.1 : \iota \Rightarrow \iota$ be given. Let $k1_xboole.0 : \iota$ be given. Let $v1_funct.1 : \iota \Rightarrow o$ be given. Let $v1_finseq.1 : \iota \Rightarrow o$ be given. Let $m1_subset.1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc.1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc.1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_numbers : \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. (\neg v1_xboole.0 X0) \Rightarrow (\forall X1. (m2_finseq.1 X1 X0) \Rightarrow \\ & ((X1 \neq k1_xboole.0) \Rightarrow (k4_finseq.4 X1 (k7_partfun1 X0 X1 np_1) = \\ & \quad np_1))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v3_funct.1 X0) \wedge ((\neg v1_xboole.0 X0) \wedge ((v1_finseq.6 \\ & X0 (u1_struct.0 (k15_euclid np_2)))) \wedge ((v1_topreal1 X0) \wedge ((v2_topreal1 \\ & X0) \wedge ((v1_goboard5 X0) \wedge ((v2_goboard5 X0) \wedge (m2_finseq.1 X0 (u1_struct.0 \\ & (k15_euclid np_2)))))))))) \Rightarrow (\neg (k7_partfun1 (u1_struct.0 (k15_euclid \\ & np_2)) X0 np_1 = k18_pscomp.1 (k3_topreal1 np_2 X0)) \wedge (r1_xxreal.0 \\ & (k4_finseq.4 X0 (k19_pscomp.1 (k3_topreal1 np_2 X0))) (k4_finseq.4 \\ & X0 (k18_pscomp.1 (k3_topreal1 np_2 X0)))))) \end{aligned} \quad (2)$$

Assume the following.

$$v1_xboole.0 \ k1_xboole.0 \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m2_finseq.1 X1 X0) \Rightarrow ((v1_funct.1 X1) \wedge (\\ & (v1_finseq.1 X1) \wedge (m1_subset.1 X1 (k1_zfmisc.1 (k2_zfmisc.1 k5_numbers \\ & X0)))))) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.(v1_xboole_0 X0)\Rightarrow(\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X1 X0)))\Rightarrow(v1_xboole_0 X2)) \quad (5)$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v3_funct_1 X0)\wedge(\neg v1_xboole_0 X0)\wedge((v1_finseq_6 \\ & X0 (u1_struct_0 (k15_euclid np_2)))\wedge((v1_topreal1 X0)\wedge((v2_topreal1 \\ & X0)\wedge((v1_goboard5 X0)\wedge((v2_goboard5 X0)\wedge(m2_finseq_1 X0 (u1_struct_0 \\ & (k15_euclid np_2))))))))))\Rightarrow(\neg(k7_partfun1 (u1_struct_0 (k15_euclid \\ & np_2)) X0 np_1 = k18_pscomp_1 (k3_topreal1 np_2 X0))\wedge(r1_xxreal_0 \\ & (k4_finseq_4 X0 (k19_pscomp_1 (k3_topreal1 np_2 X0))) np_1)) \end{aligned}$$