

t83_topreal6 (TMXY-
iFRuXG5AdCLnRrzW1fv2En5dm3BgJnF)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ 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 $v9_rltopsp1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_measure6 : \iota \Rightarrow \iota$ be given. Let $k7_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_numbers : \iota$ be given. Let $k4_pscomp_1 : \iota$ be given. Let $k2_pre_topc : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_pscomp_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.(m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 (k15_euclid \\ np_2)))) \Rightarrow (r1_tarski (k7_relset_1 (u1_struct_0 (k15_euclid \\ np_2)) k1_numbers k4_pscomp_1 (k2_pre_topc (k15_euclid np_2) \\ X0)) (k6_measure6 (k7_relset_1 (u1_struct_0 (k15_euclid np_2)) \\ k1_numbers k4_pscomp_1 X0))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 (k15_euclid \\ np_2)))) \Rightarrow ((v9_rltopsp1 X0 (k15_euclid np_2)) \Rightarrow (\forall X1. \\ ((v1_funct_1 X1) \wedge ((v1_funct_2 X1 (u1_struct_0 (k15_euclid np_2)) \\ k1_numbers) \wedge ((v1_pscomp_1 X1 (k15_euclid np_2)) \wedge (m1_subset_1 \\ X1 (k1_zfmisc_1 (k2_zfmisc_1 (u1_struct_0 (k15_euclid np_2)) \\ k1_numbers)))))) \Rightarrow (r1_tarski (k6_measure6 (k7_relset_1 (u1_struct_0 \\ (k15_euclid np_2)) k1_numbers X1 X0)) (k7_relset_1 (u1_struct_0 \\ (k15_euclid np_2)) k1_numbers X1 (k2_pre_topc (k15_euclid np_2) \\ X0)))))) \end{aligned} \quad (2)$$

Assume the following.

$$(v1_funct_1 k4_pscomp_1) \wedge ((v1_funct_2 k4_pscomp_1 (u1_struct_0 \\ (k15_euclid np_2)) k1_numbers) \wedge (v1_pscomp_1 k4_pscomp_1 (k15_euclid \\ np_2))) \quad (3)$$

Assume the following.

$$(v1_funct_1\ k4_pscomp_1) \wedge ((v1_funct_2\ k4_pscomp_1\ (u1_struct_0\ (k15_euclid\ np_2))\ k1_numbers) \wedge (m1_subset_1\ k4_pscomp_1\ (k1_zfmisc_1\ (k2_zfmisc_1\ (u1_struct_0\ (k15_euclid\ np_2))\ k1_numbers)))))) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.(X0 = X1) \Leftrightarrow ((r1_tarski\ X0\ X1) \wedge (r1_tarski\ X1\ X0)) \quad (5)$$

Theorem 1

$$\begin{aligned} & \forall X0.(m1_subset_1\ X0\ (k1_zfmisc_1\ (u1_struct_0\ (k15_euclid\ np_2)))) \Rightarrow ((v9_rltopsp1\ X0\ (k15_euclid\ np_2)) \Rightarrow (k6_measure6 \\ & (k7_relset_1\ (u1_struct_0\ (k15_euclid\ np_2))\ k1_numbers\ k4_pscomp_1\ X0) = k7_relset_1\ (u1_struct_0\ (k15_euclid\ np_2))\ k1_numbers \\ & k4_pscomp_1\ (k2_pre_topc\ (k15_euclid\ np_2)\ X0))) \end{aligned}$$