

t62_topreal9

(TMarvXfJ1GaebLUdihZgRZN2QMvtxd6DSZH)

October 27, 2020

Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ 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 $k5_jgraph_6 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_topreal9 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_topreal9 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k19_euclid : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k5_numbers : \iota$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (\forall X2. \\ & (v1_xreal_0 X2) \Rightarrow (k3_topreal9 np_2 (k19_euclid X0 X1) X2 = k5_jgraph_6 \\ & X0 X1 X2))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((X0 \in X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X2))) \Rightarrow (m1_subset_1 X0 X2) \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1.(v1_xreal_0 \\ & X1) \Rightarrow (\forall X2.(m1_subset_1 X2 (u1_struct_0 (k15_euclid X0))) \Rightarrow \\ & (\forall X3.(m1_subset_1 X3 (u1_struct_0 (k15_euclid X0))) \Rightarrow (\\ & \forall X4.(m1_subset_1 X4 (u1_struct_0 (k15_euclid X0))) \Rightarrow ((\\ & (X2 \in k3_topreal9 X0 X3 X1) \wedge (X4 \in k3_topreal9 X0 X3 X1) \Rightarrow (k9_subset_1 \\ & (u1_struct_0 (k15_euclid X0)) (k4_topreal9 X0 X2 X4) (k3_topreal9 \\ & X0 X3 X1) = k2_tarski X2 X4)))))) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 np_2) \wedge (m2_subset_1 np_2 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_2 k5_numbers) \wedge (m1_subset_1 np_2 k1_numbers)) \end{aligned} \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((v1_xreal_0 X0)\wedge((v1_xreal_0 X1)\wedge(v1_xreal_0 X2)))\Rightarrow(m1_subset_1 (k5_jgraph_6 X0 X1 X2) (k1_zfmisc_1 (u1_struct_0 (k15_euclid np_2)))) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xreal_0 X0)\wedge(v1_xreal_0 X1))\Rightarrow(m1_subset_1 (k19_euclid X0 X1) (u1_struct_0 (k15_euclid np_2))) \quad (6)$$

Theorem 1

$$\begin{aligned} & \forall X0.(v1_xreal_0 X0)\Rightarrow(\forall X1.(v1_xreal_0 X1)\Rightarrow(\forall X2. \\ & (v1_xreal_0 X2)\Rightarrow(\forall X3.(m1_subset_1 X3 (u1_struct_0 (k15_euclid \\ & np_2))))\Rightarrow(\forall X4.(m1_subset_1 X4 (u1_struct_0 (k15_euclid \\ & np_2))))\Rightarrow(((X3 \in k5_jgraph_6 X0 X1 X2)\wedge(X4 \in k5_jgraph_6 X0 X1 X2))\Rightarrow \\ & (k9_subset_1 (u1_struct_0 (k15_euclid np_2)) (k4_topreal9 np_2 \\ & X3 X4) (k5_jgraph_6 X0 X1 X2) = k2_tarski X3 X4)))))) \end{aligned}$$