

t13_topgen_5
(TMX8RyjiqSUPweZmx5fVoiMTzkAx4MUV1it)

October 27, 2020

Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k15_euclid : \iota \Rightarrow \iota$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $k1_topreal9 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.(m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1.((v2_xxreal_0 \\ X1) \wedge (v1_xreal_0 X1)) \Rightarrow (\forall X2.(m1_subset_1 X2 (u1_struct_0 \\ (k15_euclid X0))) \Rightarrow (X2 \in k1_topreal9 X0 X2 X1))) \end{aligned} \quad (1)$$

Theorem 1

$$\begin{aligned} \forall X0.(m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1.(m1_subset_1 \\ X1 (u1_struct_0 (k15_euclid X0))) \Rightarrow (\forall X2.((v1_xreal_0 X2) \wedge \\ (v2_xxreal_0 X2)) \Rightarrow (X1 \in k1_topreal9 X0 X1 X2))) \end{aligned}$$