

t65_euclid

(TMY28EU1XJqDyTfemcb4CF6ztuehn6QjyVS)

October 27, 2020

Let $v7_ordinal1 : \iota \Rightarrow o$ be given. 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 $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v3_valued_0 : \iota \Rightarrow o$ be given. Let $k1_rlvect_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k24_valued_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 \\ (k15_euclid X0))) \Rightarrow (\forall X2.(v1_xreal_0 X2) \Rightarrow (\forall X3.(\\ (v1_relat_1 X3) \wedge ((v1_funct_1 X3) \wedge (v3_valued_0 X3))) \Rightarrow ((X1 = X3) \Rightarrow \\ (k1_rlvect_1 (k15_euclid X0) X1 X2 = k24_valued_1 X3 X2)))))) \end{aligned} \quad (1)$$

Theorem 1

$$\begin{aligned} \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (\forall X2. \\ (m1_subset_1 X2 (u1_struct_0 (k15_euclid X0))) \Rightarrow (\forall X3.(\\ (v1_relat_1 X3) \wedge ((v1_funct_1 X3) \wedge (v3_valued_0 X3))) \Rightarrow ((X2 = X3) \Rightarrow \\ (k1_rlvect_1 (k15_euclid X0) X2 X1 = k24_valued_1 X3 X1)))))) \end{aligned}$$