

t58_euclid_2 (TMTEmNRBH-
pCw5jF9emhrzybohZ7PU1APjNR)

October 27, 2020

Let $v7_ordinal1 : \iota \Rightarrow o$ 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 $r1_rvsum_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_struct_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.(v7_ordinal1\ X0) \Rightarrow (\forall X1.(m1_subset_1\ X1\ (u1_struct_0 \\ (k15_euclid\ X0))) \Rightarrow ((r1_rvsum_1\ X1\ X1) \Leftrightarrow (X1 = k4_struct_0\ (k15_euclid \\ X0)))) \end{aligned} \tag{1}$$

Theorem 1

$$\begin{aligned} \forall X0.(v7_ordinal1\ X0) \Rightarrow (\forall X1.(m1_subset_1\ X1\ (u1_struct_0 \\ (k15_euclid\ X0))) \Rightarrow ((\forall X2.(m1_subset_1\ X2\ (u1_struct_0 \\ (k15_euclid\ X0))) \Rightarrow (r1_rvsum_1\ X1\ X2)) \Rightarrow (X1 = k4_struct_0\ (k15_euclid \\ X0)))) \end{aligned}$$