

t33_euclid_2 (TM- cfR2jy5TK6kFXCXcFwwuC3kMwbjRmveV1)

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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 $k23_rvsum_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_struct_0 : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k5_algstr_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10_binop_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.(v7_ordinal1\ X0) \Rightarrow (\forall X1.(m1_subset_1\ X1\ (u1_struct_0 \\ (k15_euclid\ X0))) \Rightarrow (k5_algstr_0\ (k15_euclid\ X0)\ X1\ X1 = k4_struct_0 \\ (k15_euclid\ X0))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(v7_ordinal1\ X0) \Rightarrow (\forall X1.(m1_subset_1\ X1\ (u1_struct_0 \\ (k15_euclid\ X0))) \Rightarrow (k23_rvsum_1\ X1\ (k4_struct_0\ (k15_euclid\ X0)) = \\ k6_numbers)) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0.(v7_ordinal1\ X0) \Rightarrow (\forall X1.(m1_subset_1\ X1\ (u1_struct_0 \\ (k15_euclid\ X0))) \Rightarrow (\forall X2.(m1_subset_1\ X2\ (u1_struct_0\ (\\ k15_euclid\ X0))) \Rightarrow (\forall X3.(m1_subset_1\ X3\ (u1_struct_0\ (k15_euclid \\ X0))) \Rightarrow (k23_rvsum_1\ X1\ (k5_algstr_0\ (k15_euclid\ X0)\ X2\ X3) = k10_binop_2 \\ (k23_rvsum_1\ X1\ X2)\ (k23_rvsum_1\ X1\ X3)))))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0.(v7_ordinal1\ X0) \Rightarrow (\forall X1.(m1_subset_1\ X1\ (u1_struct_0 \\ (k15_euclid\ X0))) \Rightarrow (\forall X2.(m1_subset_1\ X2\ (u1_struct_0\ (\\ k15_euclid\ X0))) \Rightarrow (\forall X3.(m1_subset_1\ X3\ (u1_struct_0\ (k15_euclid \\ X0))) \Rightarrow (k23_rvsum_1\ (k5_algstr_0\ (k15_euclid\ X0)\ X1\ X2)\ X3 = k10_binop_2 \\ (k23_rvsum_1\ X1\ X3)\ (k23_rvsum_1\ X2\ X3)))))) \end{aligned} \quad (4)$$

Theorem 1

$$\forall X0.(v7_ordinal1\ X0) \Rightarrow (\forall X1.(m1_subset_1\ X1\ (u1_struct_0\ (k15_euclid\ X0))) \Rightarrow (k23_rvsum_1\ (k4_struct_0\ (k15_euclid\ X0))\ X1 = k6_numbers))$$