

t44.euclid_4 (TM- SCvGDQA6GfN1kCzU8tV39YP92GGAiGVEQ)

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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 $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $v2_euclid_4 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_euclid_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
 & \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 \\
 & \quad (u1_struct_0 (k15_euclid X0)))) \Rightarrow (\forall X2.(m1_subset_1 X2 \\
 & \quad (u1_struct_0 (k15_euclid X0)))) \Rightarrow (\forall X3.(m1_subset_1 X3 (\\
 & \quad u1_struct_0 (k15_euclid X0))) \Rightarrow (((v2_euclid_4 X1 X0) \wedge ((X2 \in X1) \wedge \\
 & \quad (X3 \in X1))) \Rightarrow ((X2 = X3) \vee (X1 = k4_euclid_4 X0 X2 X3)))))) \tag{1}
 \end{aligned}$$

Theorem 1

$$\begin{aligned}
 & \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 \\
 & \quad (k15_euclid X0))) \Rightarrow (\forall X2.(m1_subset_1 X2 (u1_struct_0 (\\
 & \quad k15_euclid X0))) \Rightarrow (\forall X3.(m1_subset_1 X3 (k1_zfmisc_1 (u1_struct_0 \\
 & \quad (k15_euclid X0)))) \Rightarrow (\forall X4.(m1_subset_1 X4 (k1_zfmisc_1 \\
 & \quad (u1_struct_0 (k15_euclid X0)))) \Rightarrow (\neg(v2_euclid_4 X3 X0) \wedge ((v2_euclid_4 \\
 & \quad X4 X0) \wedge ((X1 \in X3) \wedge ((X2 \in X3) \wedge ((X1 \in X4) \wedge ((X2 \in X4) \wedge ((X1 \neq X2) \wedge (X3 \neq \\
 & \quad X4))))))))))
 \end{aligned}$$