t12_euclid_4 (TMME9WwmbLwTqdmAJiSqzeijpTSTpPaSTFv)

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Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_euclid : \iota \Rightarrow \iota$ be given. Let $m2\_finseq\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $v1\_euclid\_4 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_euclid\_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k1\_euclid\ X0))) \Rightarrow (\forall X2.(m2\_finseq\_2\ X2\ k1\_numbers\ (k1\_euclid\ X0)) \Rightarrow (\forall X3.(m2\_finseq\_2\ X3\ k1\_numbers\ (k1\_euclid\ X0)) \Rightarrow (((v1\_euclid\_4\ X1\ X0) \wedge ((X2 \in X1) \wedge (X3 \in X1))) \Rightarrow ((X2 = X3) \vee (X1 = k2\_euclid\_4\ X0\ X2\ X3)))))) \tag{1}$$

Theorem 1

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k1\_euclid\ X0))) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k1\_euclid\ X0))) \Rightarrow (\forall X3.(m2\_finseq\_2\ X3\ k1\_numbers\ (k1\_euclid\ X0)) \Rightarrow (\forall X4.(m2\_finseq\_2\ X4\ k1\_numbers\ (k1\_euclid\ X0)) \Rightarrow (\neg(v1\_euclid\_4\ X1\ X0) \wedge ((v1\_euclid\_4\ X2\ X0) \wedge ((X3 \in X1) \wedge ((X4 \in X1) \wedge ((X3 \in X2) \wedge ((X4 \in X2) \wedge ((X3 \neq X4) \wedge (X1 \neq X2)))))))))))$$