t52_euclid_7 (TMJse5xtuDEV9t5AoMSmjebnZcCEsuWE9au)

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Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $v5\_euclid\_7 : \iota \Rightarrow \iota \Rightarrow o$ 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 $k1\_card\_1 : \iota \Rightarrow \iota$ be given. Let $m1\_rlvect\_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k10\_funcsdom : \iota \Rightarrow \iota$ be given. Let $k2\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v13\_algstr\_0 : \iota \Rightarrow o$ be given. Let $v2\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $v3\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $v4\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $v5\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $v6\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $v7\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $v8\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $l1\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $v1\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $g1\_rlvect\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_numbers : \iota$ be given. Let $k8\_funcsdom : \iota \Rightarrow \iota$ be given. Let $k5\_funcsdom : \iota \Rightarrow \iota$ be given. Let $k7\_funcsdom : \iota \Rightarrow \iota$ be given. Let $k8\_funcop\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5\_numbers : \iota$ be given. Let $k6\_numbers : \iota$ be given. Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.((v5\_euclid\_7\ X1\ X0) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k1\_euclid\ X0)))) \Rightarrow (m1\_rlvect\_3\ X1\ (k10\_funcsdom\ (k2\_finseq\_1\ X0)))) \tag{1}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k10\_funcsdom\ (k2\_finseq\_1\ X0))))) \Rightarrow ((m1\_rlvect\_3\ X1\ (k10\_funcsdom\ (k2\_finseq\_1\ X0))) \Rightarrow (k1\_card\_1\ X1 = X0))) \tag{2}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((v13\_algstr\_0\ X0) \wedge ((v2\_rlvect\_1\ X0) \wedge ((v3\_rlvect\_1\ X0) \wedge ((v4\_rlvect\_1\ X0) \wedge ((v5\_rlvect\_1\ X0) \wedge ((v6\_rlvect\_1\ X0) \wedge ((v7\_rlvect\_1\ X0) \wedge ((v8\_rlvect\_1\ X0) \wedge (l1\_rlvect\_1\ X0))))))))) \Rightarrow (\forall X1.(m1\_rlvect\_3\ X1\ X0) \Rightarrow (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ X0)))) \tag{3}$$

Assume the following.

$$\forall X0.(\neg v2\_struct\_0\ (k10\_funcsdom\ X0))\wedge((v13\_algstr\_0\ (k10\_funcsdom\ X0))\wedge((v1\_rlvect\_1\ (k10\_funcsdom\ X0))\wedge((v2\_rlvect\_1\ (k10\_funcsdom\ X0))\wedge((v3\_rlvect\_1\ (k10\_funcsdom\ X0))\wedge((v4\_rlvect\_1\ (k10\_funcsdom\ X0))\wedge((v5\_rlvect\_1\ (k10\_funcsdom\ X0))\wedge((v6\_rlvect\_1\ (k10\_funcsdom\ X0))\wedge((v7\_rlvect\_1\ (k10\_funcsdom\ X0))\wedge((v8\_rlvect\_1\ (k10\_funcsdom\ X0))\wedge(l1\_rlvect\_1\ (k10\_funcsdom\ X0))))))))))) \tag{4}$$

Assume the following.

$$\forall X0.k10\_funcsdom\ X0 = g1\_rlvect\_1\ (k9\_funct\_2\ X0\ k1\_numbers)\ (k8\_funcsdom\ X0)\ (k5\_funcsdom\ X0)\ (k7\_funcsdom\ X0) \tag{5}$$

Assume the following.

$$\forall X0.k8\_funcsdom\ X0 = k8\_funcop\_1\ k5\_numbers\ X0\ k6\_numbers \tag{6}$$

Theorem 1

$$\forall X0.(v7\_ordinal1\ X0)\Rightarrow(\forall X1.((v5\_euclid\_7\ X1\ X0)\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k1\_euclid\ X0))))\Rightarrow(k1\_card\_1\ X1 = X0))$$