t27_euclid_5 (TMRquPYx1PNdR6LyFjkUDe6jr55YRikVSLi)

October 27, 2020

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 $np\_\_3 : \iota$ be given. Let $k3\_finseq\_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_numbers : \iota$ be given. Let $k1\_euclid\_5 : \iota \Rightarrow \iota$ be given. Let $k2\_euclid\_5 : \iota \Rightarrow \iota$ be given. Let $k3\_euclid\_5 : \iota \Rightarrow \iota$ be given. Let $k4\_euclid\_5 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $k11\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_3))) \Rightarrow (X0 = k4\_euclid\_5\ (k1\_euclid\_5\ X0)\ (k2\_euclid\_5\ X0)\ (k3\_euclid\_5\ X0)) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((v1\_xreal\_0\ X0) \wedge ((v1\_xreal\_0\ X1) \wedge (v1\_xreal\_0\ X2))) \Rightarrow (k4\_euclid\_5\ X0\ X1\ X2 = k11\_finseq\_1\ X0\ X1\ X2) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.((\neg v1\_xboole\_0\ X0) \wedge ((m1\_subset\_1\ X1\ X0) \wedge ((m1\_subset\_1\ X2\ X0) \wedge (m1\_subset\_1\ X3\ X0)))) \Rightarrow (k3\_finseq\_4\ X0\ X1\ X2\ X3 = k11\_finseq\_1\ X1\ X2\ X3) \tag{3}$$

Assume the following.

$$\neg v1\_xboole\_0\ k1\_numbers \tag{4}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_3))) \Rightarrow (m1\_subset\_1\ (k3\_euclid\_5\ X0)\ k1\_numbers) \tag{5}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_3))) \Rightarrow (m1\_subset\_1\ (k2\_euclid\_5\ X0)\ k1\_numbers) \tag{6}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_3)))\Rightarrow (m1\_subset\_1\ (k1\_euclid\_5\ X0)\ k1\_numbers) \tag{7}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers)\Rightarrow(v1\_xreal\_0\ X0) \tag{8}$$

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_3)))\Rightarrow (X0 = k3\_finseq\_4\ k1\_numbers\ (k1\_euclid\_5\ X0)\ (k2\_euclid\_5\ X0)\ (k3\_euclid\_5\ X0))$$