t11_topalg_1 (TMMSaBD-nCMDt4wJ4WDCZHEmwWmpTFUG3Kyx)

October 27, 2020

Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $m2\_finseq\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $k1\_euclid : \iota \Rightarrow \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k17\_borsuk\_1 : \iota$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k12\_euclid : \iota \Rightarrow \iota$ be given. Let $k9\_euclid : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $k6\_numbers : \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $k1\_rcomp\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_xboole\_0 : \iota$ be given. Assume the following.

$$\forall X0.\forall X1.\neg(X0 \in X1) \wedge (v1\_xboole\_0\ X1) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (((r1\_xxreal\_0\ k6\_numbers\ X0) \wedge (r1\_xxreal\_0\ X0\ np\_\_1)) \Leftrightarrow (X0 \in u1\_struct\_0\ k17\_borsuk\_1)) \tag{2}$$

Assume the following.

$$u1\_struct\_0\ k17\_borsuk\_1 = k1\_rcomp\_1\ k6\_numbers\ np\_\_1 \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X0\ X1) \Rightarrow ((v1\_xboole\_0\ X1) \vee (X0 \in X1)) \tag{4}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (\forall X1.(v7\_ordinal1\ X1) \Rightarrow (\forall X2.(m2\_finseq\_2\ X2\ k1\_numbers\ (k1\_euclid\ X1)) \Rightarrow (((r1\_xxreal\_0\ k6\_numbers\ X0) \wedge (r1\_xxreal\_0\ X0\ np\_\_1)) \Rightarrow (r1\_xxreal\_0\ (k12\_euclid\ (k9\_euclid\ X1\ X2\ X0))\ (k12\_euclid\ X2))))) \tag{5}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{6}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ k17\_borsuk\_1))\Rightarrow(m1\_subset\_1\ X0\ k1\_numbers) \tag{7}$$

Assume the following.

$$(k6\_numbers \in k1\_rcomp\_1\ k6\_numbers\ np\_\_1)\wedge(np\_\_1 \in k1\_rcomp\_1\ k6\_numbers\ np\_\_1) \tag{8}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers)\Rightarrow(v1\_xreal\_0\ X0) \tag{9}$$

Theorem 1

$$\forall X0.(v7\_ordinal1\ X0)\Rightarrow(\forall X1.(m2\_finseq\_2\ X1\ k1\_numbers\ (k1\_euclid\ X0))\Rightarrow(\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ k17\_borsuk\_1))\Rightarrow(r1\_xxreal\_0\ (k12\_euclid\ (k9\_euclid\ X0\ X1\ X2))\ (k12\_euclid\ X1))))$$