t27_topreal1 (TMcAVdZbL24rEVAFBHFfznENV527Zj6iq2x)

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Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k15\_euclid : \iota \Rightarrow \iota$ be given. Let $np\_\_2 : \iota$ be given. Let $v5\_topreal1 : \iota \Rightarrow o$ be given. Let $k1\_topreal1 : \iota$ be given. Let $k4\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k19\_euclid : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v4\_topreal1 : \iota \Rightarrow o$ be given. Let $k3\_topreal1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7\_partfun1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $v2\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $k5\_numbers : \iota$ be given. Let $m1\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4\_ordinal1 : \iota$ be given. Let $v6\_membered : \iota \Rightarrow o$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\exists X0.(m2\_finseq\_1\ X0\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\wedge (\exists X1.(m2\_finseq\_1\ X1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\wedge ((v4\_topreal1\ X0)\wedge((v4\_topreal1\ X1)\wedge((k1\_topreal1 = k4\_subset\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ (k3\_topreal1\ np\_\_2\ X0)\ (k3\_topreal1\ np\_\_2\ X1))\wedge((k9\_subset\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ (k3\_topreal1\ np\_\_2\ X0)\ (k3\_topreal1\ np\_\_2\ X1) = k2\_tarski\ (k19\_euclid\ k6\_numbers\ k6\_numbers)\ (k19\_euclid\ np\_\_1\ np\_\_1))\wedge((k7\_partfun1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ X0\ np\_\_1 = k19\_euclid\ k6\_numbers\ k6\_numbers)\wedge((k7\_partfun1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ X0\ (k3\_finseq\_1\ X0) = k19\_euclid\ np\_\_1\ np\_\_1)\wedge((k7\_partfun1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ X1\ np\_\_1 = k19\_euclid\ k6\_numbers\ k6\_numbers)\wedge(k7\_partfun1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ X1\ (k3\_finseq\_1\ X1) = k19\_euclid\ np\_\_1\ np\_\_1)))))))))) \tag{1}$$

Assume the following.

$$((v2\_xxreal\_0\ np\_\_2)\wedge(m2\_subset\_1\ np\_\_2\ k1\_numbers\ k5\_numbers))\wedge((m1\_subset\_1\ np\_\_2\ k5\_numbers)\wedge(m1\_subset\_1\ np\_\_2\ k1\_numbers)) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.(m2\_finseq\_1\ X1\ X0)\Leftrightarrow(m1\_finseq\_1\ X1\ X0) \tag{3}$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{4}$$

Assume the following.

$$v6\_membered\ k4\_ordinal1 \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.((v7\_ordinal1\ X0)\wedge(m1\_finseq\_1\ X1\ (u1\_struct\_0\ (k15\_euclid\ X0))))\Rightarrow(m1\_subset\_1\ (k3\_topreal1\ X0\ X1)\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ X0)))) \tag{6}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))\Rightarrow((v5\_topreal1\ X0)\Leftrightarrow(\exists X1.(m2\_finseq\_1\ X1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))\wedge((v4\_topreal1\ X1)\wedge(X0 = k3\_topreal1\ np\_\_2\ X1)))) \tag{7}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))))\Rightarrow((v5\_topreal1\ X0)\Rightarrow(\neg v1\_xboole\_0\ X0)) \tag{8}$$

Assume the following.

$$\forall X0.(v6\_membered\ X0)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ X0)\Rightarrow(v7\_ordinal1\ X1)) \tag{9}$$

Theorem 1

$$\exists X0.((\neg v1\_xboole\_0\ X0)\wedge(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))))\wedge(\exists X1.((\neg v1\_xboole\_0\ X1)\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2)))))\wedge((v5\_topreal1\ X0)\wedge((v5\_topreal1\ X1)\wedge((k1\_topreal1 = k4\_subset\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ X0\ X1)\wedge(k9\_subset\_1\ (u1\_struct\_0\ (k15\_euclid\ np\_\_2))\ X0\ X1 = k2\_tarski\ (k19\_euclid\ k6\_numbers\ k6\_numbers)\ (k19\_euclid\ np\_\_1\ np\_\_1)))))) \tag{}$$