t11_random_1 (TMNsS52CKkBNGaRC5honAKBMqQRt6P4bjA7)

October 27, 2020

Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $v1\_finset\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_random\_1 : \iota \Rightarrow \iota$ be given. Let $k7\_numbers : \iota$ be given. Let $v10\_valued\_0 : \iota \Rightarrow o$ be given. Let $v6\_supinf\_2 : \iota \Rightarrow o$ be given. Let $v4\_measure1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_numbers : \iota$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_xxreal\_0 : \iota$ be given. Let $k12\_supinf\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $k5\_card\_1 : \iota \Rightarrow \iota$ be given. Let $v2\_funct\_1 : \iota \Rightarrow o$ be given. Let $k2\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $k4\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_extreal1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_measure6 : \iota \Rightarrow \iota$ be given. Let $k1\_seq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_tarski : \iota \Rightarrow \iota$ be given. Let $k1\_mesfunc6 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_extreal1 : \iota \Rightarrow \iota$ be given. Let $k1\_uproots : \iota \Rightarrow \iota$ be given. Let $m1\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2\_funct\_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v1\_finseq\_1 : \iota \Rightarrow o$ be given. Let $v1\_prob\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v4\_prob\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v5\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1\_finset\_1\ X0) \Rightarrow (k3\_finseq\_1\ (k1\_uproots\ X0) = k5\_card\_1\ X0) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(m2\_finseq\_1\ X1\ X0) \Leftrightarrow (m1\_finseq\_1\ X1\ X0) \tag{2}$$

Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (k1\_random\_1\ X0 = k1\_zfmisc\_1\ X0) \tag{3}$$

Assume the following.

$$\forall X0.((\neg v1\_xboole\_0\ X0)\wedge(v1\_finset\_1\ X0))\Rightarrow(\forall X1.((v1\_funct\_1\ X1)\wedge((v1\_funct\_2\ X1\ (k1\_random\_1\ X0)\ k7\_numbers)\wedge((v10\_valued\_0\ X1)\wedge((v6\_supinf\_2\ X1)\wedge((v4\_measure1\ X1\ X0\ (k1\_random\_1\ X0))\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k1\_random\_1\ X0)\ k7\_numbers))))))))\Rightarrow(\forall X2.((v1\_funct\_1\ X2)\wedge((v1\_funct\_2\ X2\ X0\ k1\_numbers)\wedge(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ k1\_numbers)))))\Rightarrow(\neg(\neg r1\_xxreal\_0\ k1\_xxreal\_0\ (k12\_supinf\_2\ X1\ X0))\wedge(\forall X3.(m2\_finseq\_1\ X3\ k7\_numbers)\Rightarrow(\neg(k3\_finseq\_1\ X3 = k5\_card\_1\ X0)\wedge((\forall X4.(v7\_ordinal1\ X4)\Rightarrow((X4 \in k4\_finseq\_1\ X3)\Rightarrow(k12\_supinf\_2\ X3\ X4 = k1\_extreal1\ (k1\_measure6\ (k1\_seq\_1\ X2\ (k1\_funct\_1\ (k1\_uproots\ X0)\ X4)))\ (k12\_supinf\_2\ X1\ (k1\_tarski\ (k1\_funct\_1\ (k1\_uproots\ X0)\ X4))))))\wedge(k1\_mesfunc6\ X0\ (k1\_random\_1\ X0)\ X1\ X2 = k4\_extreal1\ X3)))))))) \tag{4}$$

Assume the following.

$$\neg v1\_xboole\_0\ k7\_numbers \tag{5}$$

Assume the following.

$$\forall X0.(v1\_finset\_1\ X0)\Rightarrow((v2\_funct\_1\ (k1\_uproots\ X0))\wedge(v2\_funct\_2\ (k1\_uproots\ X0)\ X0)) \tag{6}$$

Assume the following.

$$\neg v1\_xboole\_0\ k1\_numbers \tag{7}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_finseq\_1\ X1\ X0)\Rightarrow((v1\_relat\_1\ X1)\wedge((v1\_funct\_1\ X1)\wedge(v1\_finseq\_1\ X1))) \tag{8}$$

Assume the following.

$$\forall X0.(v1\_finset\_1\ X0)\Rightarrow(m2\_finseq\_1\ (k1\_uproots\ X0)\ X0) \tag{9}$$

Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0)\Rightarrow((\neg v1\_xboole\_0\ (k1\_random\_1\ X0))\wedge((v1\_prob\_1\ (k1\_random\_1\ X0)\ X0)\wedge((v4\_prob\_1\ (k1\_random\_1\ X0)\ X0)\wedge(m1\_subset\_1\ (k1\_random\_1\ X0)\ (k1\_zfmisc\_1\ (k1\_zfmisc\_1\ X0)))))) \tag{10}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_relat\_1\ X1)\wedge(v5\_relat\_1\ X1\ X0))\Rightarrow((v2\_funct\_2\ X1\ X0)\Leftrightarrow(k2\_relset\_1\ X0\ X1 = X0)) \tag{11}$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1\_xboole\_0\ X0)\wedge(\neg v1\_xboole\_0\ X1))\Rightarrow(\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1)))\Rightarrow(((v1\_funct\_1\ X2)\wedge(v1\_funct\_2\ X2\ X0\ X1))\Rightarrow((v1\_funct\_1\ X2)\wedge((\neg v1\_xboole\_0\ X2)\wedge(v1\_funct\_2\ X2\ X0\ X1))))) \tag{12}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_finseq\_1\ X1\ X0)\Rightarrow(v5\_relat\_1\ X1\ X0) \tag{13}$$

Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0))\Rightarrow(v1\_xboole\_0\ X1)) \tag{14}$$

Theorem 1

$$\forall X0.((\neg v1\_xboole\_0\ X0)\wedge(v1\_finset\_1\ X0))\Rightarrow(\forall X1.((v1\_funct\_1\ X1)\wedge((v1\_funct\_2\ X1\ (k1\_random\_1\ X0)\ k7\_numbers)\wedge((v10\_valued\_0\ X1)\wedge((v6\_supinf\_2\ X1)\wedge((v4\_measure1\ X1\ X0\ (k1\_random\_1\ X0))\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k1\_random\_1\ X0)\ k7\_numbers))))))))\Rightarrow(\forall X2.((v1\_funct\_1\ X2)\wedge((v1\_funct\_2\ X2\ X0\ k1\_numbers)\wedge(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ k1\_numbers)))))\Rightarrow(\neg(\neg r1\_xxreal\_0\ k1\_xxreal\_0\ (k12\_supinf\_2\ X1\ X0))\wedge(\forall X3.(m2\_finseq\_1\ X3\ k7\_numbers)\Rightarrow(\forall X4.(m2\_finseq\_1\ X4\ X0)\Rightarrow(\neg(k3\_finseq\_1\ X3 = k5\_card\_1\ X0)\wedge((v2\_funct\_1\ X4)\wedge((k2\_relset\_1\ X0\ X4 = X0)\wedge((k3\_finseq\_1\ X4 = k5\_card\_1\ X0)\wedge((\forall X5.(v7\_ordinal1\ X5)\Rightarrow((X5 \in k4\_finseq\_1\ X3)\Rightarrow(k12\_supinf\_2\ X3\ X5 = k1\_extreal1\ (k1\_measure6\ (k1\_seq\_1\ X2\ (k1\_funct\_1\ X4\ X5)))\ (k12\_supinf\_2\ X1\ (k1\_tarski\ (k1\_funct\_1\ X4\ X5))))))\wedge(k1\_mesfunc6\ X0\ (k1\_random\_1\ X0)\ X1\ X2 = k4\_extreal1\ X3))))))))))$$