t13_random_1 (TMYuPtczABzuTfwYpGZr-jSA2wMYVfvq4TY3)

October 27, 2020

Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $v1\_finset\_1 : \iota \Rightarrow o$ be given. Let $m2\_prob\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_random\_1 : \iota \Rightarrow \iota$ 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 $k1\_numbers : \iota$ 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 $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ 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 $k1\_seq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k2\_prob\_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k18\_rvsum\_1 : \iota \Rightarrow \iota$ 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 $v5\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$ 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.

$$\forall X0.((\neg v1\_xboole\_0\ X0) \wedge (v1\_finset\_1\ X0)) \Rightarrow (\forall X1.\ (m2\_prob\_1\ X1\ X0\ (k1\_random\_1\ X0)) \Rightarrow (\forall X2.((v1\_funct\_1\ X2) \wedge ((v1\_funct\_2\ X2\ X0\ k1\_numbers) \wedge (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ k1\_numbers))))) \Rightarrow (\exists X3.(m2\_finseq\_1\ X3\ k1\_numbers) \wedge ((k3\_finseq\_1\ X3 = k5\_card\_1\ X0) \wedge ((\forall X4.(v7\_ordinal1\ X4) \Rightarrow ((X4 \in k4\_finseq\_1\ X3) \Rightarrow (k1\_seq\_1\ X3\ X4 = k8\_real\_1\ (k1\_seq\_1\ X2\ (k1\_funct\_1\ (k1\_uproots\ X0)\ X4))\ (k1\_seq\_1\ X1\ (k1\_tarski\ (k1\_funct\_1\ (k1\_uproots\ X0)\ X4)))))) \wedge (k1\_mesfunc6\ X0\ (k1\_random\_1\ X0)\ (k2\_prob\_4\ X0\ (k1\_random\_1\ X0)\ X1)\ X2 = k18\_rvsum\_1\ X3))))))) \tag{3}$$

Assume the following.

$$\forall X0.(v1\_finset\_1\ X0)\Rightarrow((v2\_funct\_1\ (k1\_uproots\ X0))\wedge(v2\_funct\_2\ (k1\_uproots\ X0)\ X0)) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_finseq\_1\ X1\ X0)\Rightarrow((v1\_relat\_1\ X1)\wedge((v1\_funct\_1\ X1)\wedge(v1\_finseq\_1\ X1))) \tag{5}$$

Assume the following.

$$\forall X0.(v1\_finset\_1\ X0)\Rightarrow(m2\_finseq\_1\ (k1\_uproots\ X0)\ X0) \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_relat\_1\ X1)\wedge(v5\_relat\_1\ X1\ X0))\Rightarrow((v2\_funct\_2\ X1\ X0)\Leftrightarrow(k2\_relset\_1\ X0\ X1 = X0)) \tag{7}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_finseq\_1\ X1\ X0)\Rightarrow(v5\_relat\_1\ X1\ X0) \tag{8}$$

Theorem 1

$$\forall X0.((\neg v1\_xboole\_0\ X0)\wedge(v1\_finset\_1\ X0))\Rightarrow(\forall X1.(m2\_prob\_1\ X1\ X0\ (k1\_random\_1\ X0))\Rightarrow(\forall X2.((v1\_funct\_1\ X2)\wedge((v1\_funct\_2\ X2\ X0\ k1\_numbers)\wedge(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ k1\_numbers)))))\Rightarrow(\exists X3.(m2\_finseq\_1\ X3\ k1\_numbers)\wedge(\exists X4.(m2\_finseq\_1\ X4\ X0)\wedge((k3\_finseq\_1\ X3 = k5\_card\_1\ X0)\wedge((v2\_funct\_1\ X4)\wedge((k2\_relset\_1\ X0\ X4 = X0)\wedge((k3\_finseq\_1\ X4 = k5\_card\_1\ X0)\wedge((\forall X5.(v7\_ordinal1\ X5)\Rightarrow((X5 \in k4\_finseq\_1\ X3)\Rightarrow(k1\_seq\_1\ X3\ X5 = k8\_real\_1\ (k1\_seq\_1\ X2\ (k1\_funct\_1\ X4\ X5))\ (k1\_seq\_1\ X1\ (k1\_tarski\ (k1\_funct\_1\ X4\ X5))))))))\wedge(k1\_mesfunc6\ X0\ (k1\_random\_1\ X0)\ (k2\_prob\_4\ X0\ (k1\_random\_1\ X0)\ X1)\ X2 = k18\_rvsum\_1\ X3)))))))))))$$