t7_ami_2 (TMZNi3U335MMewnZRTUKFpkqnvYVpz59Fv3)

October 27, 2020

Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_ami\_2 : \iota$ be given. Let $k2\_ami\_2 : \iota$ be given. Let $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_relat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_ami\_2 : \iota$ be given. Let $k4\_ami\_2 : \iota$ be given. Let $k4\_numbers : \iota$ be given. Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v5\_ordinal1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_finset\_1 : \iota \Rightarrow o$ be given. Let $k6\_afinsq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_afinsq\_1 : \iota \Rightarrow \iota$ be given. Let $np\_\_2 : \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $k9\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v4\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5\_numbers : \iota$ be given. Let $v5\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.((v1\_relat\_1\ X2) \wedge ((v5\_ordinal1\ X2) \wedge ((v1\_funct\_1\ X2) \wedge (v1\_finset\_1\ X2)))) \Rightarrow ((X2 = k6\_afinsq\_1\ X0\ X1) \Leftrightarrow ((k1\_afinsq\_1\ X2 = np\_\_2) \wedge ((k1\_funct\_1\ X2\ k6\_numbers = X0) \wedge (k1\_funct\_1\ X2\ np\_\_1 = X1)))) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X0\ X1) \Rightarrow ((v1\_xboole\_0\ X1) \vee (X0 \in X1)) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_relat\_1\ X1) \wedge (v1\_funct\_1\ X1)) \Rightarrow (\forall X2.((v1\_relat\_1\ X2) \wedge (v1\_funct\_1\ X2)) \Rightarrow ((X0 \in k9\_xtuple\_0\ X1) \Rightarrow (k1\_funct\_1\ (k3\_relat\_1\ X1\ X2)\ X0 = k1\_funct\_1\ X2\ (k1\_funct\_1\ X1\ X0)))) \tag{3}$$

Assume the following.

$$\neg v1\_xboole\_0\ np\_\_2 \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.((\neg v1\_xboole\_0\ X0)\wedge (((v1\_funct\_1\ X2)\wedge((v1\_funct\_2\ X2\ X0\ X1)\wedge(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1)))))\wedge(m1\_subset\_1\ X3\ X0)))\Rightarrow(k3\_funct\_2\ X0\ X1\ X2\ X3 = k1\_funct\_1\ X2\ X3) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_relat\_1\ X1)\wedge(v4\_relat\_1\ X1\ X0))\Rightarrow(k1\_relset\_1\ X0\ X1 = k9\_xtuple\_0\ X1) \tag{6}$$

Assume the following.

$$\neg v1\_xboole\_0\ k1\_ami\_2 \tag{7}$$

Assume the following.

$$\forall X0.\forall X1.(v5\_ordinal1\ (k6\_afinsq\_1\ X0\ X1))\wedge(v1\_finset\_1\ (k6\_afinsq\_1\ X0\ X1)) \tag{8}$$

Assume the following.

$$(v1\_relat\_1\ k4\_ami\_2)\wedge((v4\_relat\_1\ k4\_ami\_2\ np\_\_2)\wedge((v1\_funct\_1\ k4\_ami\_2)\wedge(v1\_partfun1\ k4\_ami\_2\ np\_\_2))) \tag{9}$$

Assume the following.

$$(v1\_funct\_1\ k3\_ami\_2)\wedge((v1\_funct\_2\ k3\_ami\_2\ k1\_ami\_2\ np\_\_2)\wedge(m1\_subset\_1\ k3\_ami\_2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_ami\_2\ np\_\_2)))) \tag{10}$$

Assume the following.

$$k4\_ami\_2 = k6\_afinsq\_1\ k5\_numbers\ k4\_numbers \tag{11}$$

Assume the following.

$$\forall X0.((v1\_funct\_1\ X0)\wedge((v1\_funct\_2\ X0\ k1\_ami\_2\ np\_\_2)\wedge(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_ami\_2\ np\_\_2)))))\Rightarrow((X0 = k3\_ami\_2)\Leftrightarrow(\forall X1.(m1\_subset\_1\ X1\ k1\_ami\_2)\Rightarrow(((X1 = k5\_numbers)\Rightarrow(k3\_funct\_2\ k1\_ami\_2\ np\_\_2\ X0\ X1 = k6\_numbers))\wedge((X1 \in k2\_ami\_2)\Rightarrow(k3\_funct\_2\ k1\_ami\_2\ np\_\_2\ X0\ X1 = np\_\_1))))) \tag{12}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_relat\_1\ X1)\wedge(v4\_relat\_1\ X1\ X0))\Rightarrow((v1\_partfun1\ X1\ X0)\Leftrightarrow(k1\_relset\_1\ X0\ X1 = X0)) \tag{13}$$

Assume the following.

$$\forall X0.\forall X1.(\neg v1\_xboole\_0\ X1)\Rightarrow(\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1)))\Rightarrow((v1\_funct\_2\ X2\ X0\ X1)\Rightarrow(v1\_partfun1\ X2\ X0))) \tag{14}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1)))\Rightarrow((v4\_relat\_1\ X2\ X0)\wedge(v5\_relat\_1\ X2\ X1)) \tag{15}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1)))\Rightarrow(v1\_relat\_1\ X2) \tag{16}$$

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ k1\_ami\_2)\Rightarrow((X0 \in k2\_ami\_2)\Rightarrow(k1\_funct\_1\ (k3\_relat\_1\ k3\_ami\_2\ k4\_ami\_2)\ X0 = k4\_numbers))$$