t18_bor_cant (TMcgSjMbpdKqY4Gd1NJ4wnR9Zktq4c3Z2Bf)

October 27, 2020

Let $v1\_xboole\_0 : \iota \Rightarrow o$ 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 $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $m2\_prob\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v5\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$ 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 $k5\_numbers : \iota$ be given. Let $k9\_setfam\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1\_bor\_cant : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_kurato\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_prob\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $k4\_kurato\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2\_comseq\_2 : \iota \Rightarrow o$ be given. Let $k3\_series\_1 : \iota \Rightarrow \iota$ be given. Let $k8\_prob\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_limfunc1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.((\neg v1\_xboole\_0\ X1) \wedge ((v1\_prob\_1\ X1\ X0) \wedge ((v4\_prob\_1\ X1\ X0) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k1\_zfmisc\_1\ X0))))))) \Rightarrow (\forall X2.(m2\_prob\_1\ X2\ X0\ X1) \Rightarrow (\forall X3.((v5\_relat\_1\ X3\ X1) \wedge ((v1\_funct\_1\ X3) \wedge ((v1\_funct\_2\ X3\ k5\_numbers\ (k9\_setfam\_1\ X0)) \wedge (m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ (k9\_setfam\_1\ X0)))))))) \Rightarrow ((r1\_bor\_cant\ X0\ X1\ X2\ X3) \Rightarrow ((v2\_comseq\_2\ (k3\_series\_1\ (k8\_prob\_1\ X0\ X1\ X3\ X2))) \vee ((k1\_funct\_1\ X2\ (k3\_kurato\_0\ X0\ (k2\_prob\_1\ X0\ X3)) = k6\_numbers) \wedge (k1\_funct\_1\ X2\ (k4\_kurato\_0\ X0\ X3) = np\_\_1)))))))) \tag{1}$$

Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0)\Rightarrow(\forall X1.((\neg v1\_xboole\_0\ X1)\wedge ((v1\_prob\_1\ X1\ X0)\wedge((v4\_prob\_1\ X1\ X0)\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k1\_zfmisc\_1\ X0))))))\Rightarrow(\forall X2.(m2\_prob\_1\ X2\ X0\ X1)\Rightarrow(\forall X3.((v5\_relat\_1\ X3\ X1)\wedge((v1\_funct\_1\ X3)\wedge((v1\_funct\_2\ X3\ k5\_numbers\ (k9\_setfam\_1\ X0))\wedge(m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ (k9\_setfam\_1\ X0)))))))\Rightarrow(((v2\_comseq\_2\ (k3\_series\_1\ (k8\_prob\_1\ X0\ X1\ X3\ X2)))\Rightarrow((k1\_funct\_1\ X2\ (k4\_kurato\_0\ X0\ X3) = k6\_numbers)\wedge(k1\_funct\_1\ X2\ (k3\_kurato\_0\ X0\ (k2\_prob\_1\ X0\ X3)) = np\_\_1)))\wedge((r1\_bor\_cant\ X0\ X1\ X2\ X3)\wedge(v1\_limfunc1\ (k3\_series\_1\ (k8\_prob\_1\ X0\ X1\ X3\ X2))))\Rightarrow((k1\_funct\_1\ X2\ (k3\_kurato\_0\ X0\ (k2\_prob\_1\ X0\ X3)) = k6\_numbers)\wedge(k1\_funct\_1\ X2\ (k4\_kurato\_0\ X0\ X3) = np\_\_1)))))) \tag{2}$$

Theorem 1

$$\forall X0.(\neg v1\_xboole\_0\ X0)\Rightarrow(\forall X1.((\neg v1\_xboole\_0\ X1)\wedge ((v1\_prob\_1\ X1\ X0)\wedge((v4\_prob\_1\ X1\ X0)\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k1\_zfmisc\_1\ X0))))))\Rightarrow(\forall X2.(m2\_prob\_1\ X2\ X0\ X1)\Rightarrow(\forall X3.((v5\_relat\_1\ X3\ X1)\wedge((v1\_funct\_1\ X3)\wedge((v1\_funct\_2\ X3\ k5\_numbers\ (k9\_setfam\_1\ X0))\wedge(m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ (k9\_setfam\_1\ X0)))))))\Rightarrow((r1\_bor\_cant\ X0\ X1\ X2\ X3)\Rightarrow(((k1\_funct\_1\ X2\ (k3\_kurato\_0\ X0\ (k2\_prob\_1\ X0\ X3)) = k6\_numbers)\vee(k1\_funct\_1\ X2\ (k3\_kurato\_0\ X0\ (k2\_prob\_1\ X0\ X3)) = np\_\_1))\wedge((k1\_funct\_1\ X2\ (k4\_kurato\_0\ X0\ X3) = k6\_numbers)\vee(k1\_funct\_1\ X2\ (k4\_kurato\_0\ X0\ X3) = np\_\_1)))))))$$