l80_integra8 (TMdY-CXT7Z4Xo5BJnZKd19wEwiEg6HVr6ugR)

October 27, 2020

Let $k9\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $k2\_fdiff\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_sin\_cos6 : \iota$ be given. Let $k2\_rcomp\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_real\_1 : \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $r2\_fdiff\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_fdiff\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7\_square\_1 : \iota \Rightarrow \iota$ be given. Let $k9\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_square\_1 : \iota \Rightarrow \iota$ be given. Let $v1\_relat\_1 : \iota \Rightarrow o$ 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 $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $v1\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $v1\_xcmplx\_0 : \iota \Rightarrow o$ be given. Let $v1\_int\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_seq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v5\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow ((r2\_fdiff\_1\ k1\_sin\_cos6\ (k2\_rcomp\_1\ (k1\_real\_1\ np\_\_1)\ np\_\_1)) \wedge (\neg(\neg r1\_xxreal\_0\ X0\ (k1\_real\_1\ np\_\_1)) \wedge ((\neg r1\_xxreal\_0\ np\_\_1\ X0) \wedge (k1\_fdiff\_1\ k1\_sin\_cos6\ X0 \neq k10\_real\_1\ np\_\_1\ (k7\_square\_1\ (k9\_real\_1\ np\_\_1\ (k3\_square\_1\ X0))))))) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_relat\_1\ X1) \wedge (v4\_relat\_1\ X1\ X0)) \Rightarrow (k1\_relset\_1\ X0\ X1 = k9\_xtuple\_0\ X1) \tag{2}$$

Assume the following.

$$\exists X0.(m1\_subset\_1\ X0\ k1\_numbers) \wedge ((v1\_xxreal\_0\ X0) \wedge ((v1\_xcmplx\_0\ X0) \wedge ((v1\_xreal\_0\ X0) \wedge (v1\_int\_1\ X0)))) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_funct\_1\ X0) \wedge (m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_numbers\ k1\_numbers)))) \Rightarrow ((v1\_funct\_1\ (k2\_fdiff\_1\ X0\ X1)) \wedge (m1\_subset\_1\ (k2\_fdiff\_1\ X0\ X1)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_numbers\ k1\_numbers)))) \tag{4}$$

Assume the following.

$$(v1\_funct\_1\ k1\_sin\_cos6)\wedge(m1\_subset\_1\ k1\_sin\_cos6\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_numbers\ k1\_numbers))) \tag{5}$$

Assume the following.

$$\forall X0.((v1\_funct\_1\ X0)\wedge(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_numbers\ k1\_numbers))))\Rightarrow(\forall X1.(r2\_fdiff\_1\ X0\ X1)\Rightarrow(\forall X2.((v1\_funct\_1\ X2)\wedge(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k1\_numbers\ k1\_numbers))))\Rightarrow((X2 = k2\_fdiff\_1\ X0\ X1)\Leftrightarrow((k1\_relset\_1\ k1\_numbers\ X2 = X1)\wedge(\forall X3.(m1\_subset\_1\ X3\ k1\_numbers)\Rightarrow((X3 \in X1)\Rightarrow(k1\_seq\_1\ X2\ X3 = k1\_fdiff\_1\ X0\ X3))))))) \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1)))\Rightarrow((v4\_relat\_1\ X2\ X0)\wedge(v5\_relat\_1\ X2\ X1)) \tag{7}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1)))\Rightarrow(v1\_relat\_1\ X2) \tag{8}$$

Theorem 1

$$k9\_xtuple\_0\ (k2\_fdiff\_1\ k1\_sin\_cos6\ (k2\_rcomp\_1\ (k1\_real\_1\ np\_\_1)\ np\_\_1)) = k2\_rcomp\_1\ (k1\_real\_1\ np\_\_1)\ np\_\_1$$