t68_rinfsup1 (TMHiTU1z9o7kGSHYrovLgQUp6jR11tbtpM3)

October 27, 2020

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 $k1\_numbers : \iota$ 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 $v7\_valued\_0 : \iota \Rightarrow o$ be given. Let $v1\_seq\_2 : \iota \Rightarrow o$ be given. Let $k2\_rinfsup1 : \iota \Rightarrow \iota$ be given. Let $k4\_rinfsup1 : \iota \Rightarrow \iota$ be given. Let $k1\_rinfsup1 : \iota \Rightarrow \iota$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_seq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v3\_funct\_1 : \iota \Rightarrow o$ be given. Let $k6\_numbers : \iota$ be given. Let $v2\_seq\_2 : \iota \Rightarrow o$ be given. Let $k3\_rinfsup1 : \iota \Rightarrow \iota$ be given. Let $v8\_valued\_0 : \iota \Rightarrow o$ be given. Let $k1\_xboole\_0 : \iota$ be given. Assume the following.

$$\forall X0.(m2\_subset\_1\ X0\ k1\_numbers\ k5\_numbers) \Rightarrow (\forall X1.\ ((v1\_funct\_1\ X1) \wedge ((v1\_funct\_2\ X1\ k5\_numbers\ k1\_numbers) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ k1\_numbers))))) \Rightarrow (((v7\_valued\_0\ X1) \wedge (v1\_seq\_2\ X1)) \Rightarrow ((k1\_seq\_1\ (k4\_rinfsup1\ X1)\ X0 = k1\_rinfsup1\ X1) \wedge (v3\_funct\_1\ (k4\_rinfsup1\ X1))))) \tag{1}$$

Assume the following.

$$\forall X0.((v1\_funct\_1\ X0) \wedge ((v1\_funct\_2\ X0\ k5\_numbers\ k1\_numbers) \wedge (m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ k1\_numbers))))) \Rightarrow ((v1\_seq\_2\ X0) \Rightarrow (k1\_seq\_1\ (k4\_rinfsup1\ X0)\ k6\_numbers = k1\_rinfsup1\ X0)) \tag{2}$$

Assume the following.

$$\forall X0.((v1\_funct\_1\ X0) \wedge ((v1\_funct\_2\ X0\ k5\_numbers\ k1\_numbers) \wedge (m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ k1\_numbers))))) \Rightarrow ((v2\_seq\_2\ X0) \Rightarrow (k1\_seq\_1\ (k3\_rinfsup1\ X0)\ k6\_numbers = k2\_rinfsup1\ X0)) \tag{3}$$

Assume the following.

$$\forall X0.((v1\_funct\_1\ X0)\wedge((v1\_funct\_2\ X0\ k5\_numbers\ k1\_numbers)\wedge(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ k1\_numbers)))))\Rightarrow(((v7\_valued\_0\ X0)\Rightarrow(v2\_seq\_2\ X0))\wedge((v8\_valued\_0\ X0)\Rightarrow(v1\_seq\_2\ X0))) \tag{4}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{5}$$

Assume the following.

$$\forall X0.(m2\_subset\_1\ X0\ k1\_numbers\ k5\_numbers)\Rightarrow(\forall X1.((v1\_funct\_1\ X1)\wedge((v1\_funct\_2\ X1\ k5\_numbers\ k1\_numbers)\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ k1\_numbers)))))\Rightarrow((v7\_valued\_0\ X1)\Rightarrow(k1\_seq\_1\ (k3\_rinfsup1\ X1)\ X0 = k1\_seq\_1\ X1\ X0))) \tag{6}$$

Assume the following.

$$m2\_subset\_1\ k6\_numbers\ k1\_numbers\ k5\_numbers \tag{7}$$

Assume the following.

$$\forall X0.((v1\_funct\_1\ X0)\wedge((v1\_funct\_2\ X0\ k5\_numbers\ k1\_numbers)\wedge(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ k1\_numbers)))))\Rightarrow((v1\_funct\_1\ (k4\_rinfsup1\ X0))\wedge((v1\_funct\_2\ (k4\_rinfsup1\ X0)\ k5\_numbers\ k1\_numbers)\wedge(m1\_subset\_1\ (k4\_rinfsup1\ X0)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ k1\_numbers))))) \tag{8}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ k1\_numbers)))\Rightarrow(((v1\_funct\_1\ X0)\wedge(v3\_funct\_1\ X0))\Rightarrow((v1\_funct\_1\ X0)\wedge((v7\_valued\_0\ X0)\wedge(v8\_valued\_0\ X0)))) \tag{9}$$

Theorem 1

$$\forall X0.((v1\_funct\_1\ X0)\wedge((v1\_funct\_2\ X0\ k5\_numbers\ k1\_numbers)\wedge(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ k1\_numbers)))))\Rightarrow(((v7\_valued\_0\ X0)\wedge(v1\_seq\_2\ X0))\Rightarrow(k2\_rinfsup1\ (k4\_rinfsup1\ X0) = k1\_rinfsup1\ X0))$$