t46_supinf_2 (TMHfp7MbGAWGpYfeHRR7BuBLzDy7NWTSDQt)

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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 $k7\_numbers : \iota$ 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 $v6\_supinf\_2 : \iota \Rightarrow o$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $k12\_supinf\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_supinf\_1 : \iota$ be given. Let $v7\_supinf\_2 : \iota \Rightarrow o$ be given. Let $k19\_supinf\_2 : \iota \Rightarrow \iota$ be given. Let $k4\_ordinal1 : \iota$ be given. Let $k1\_xxreal\_0 : \iota$ be given. Assume the following.

$$\forall X0.((v1\_funct\_1\ X0) \wedge ((v1\_funct\_2\ X0\ k5\_numbers\ k7\_numbers) \wedge (m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ k7\_numbers))))) \Rightarrow ((v6\_supinf\_2\ X0) \Rightarrow ((\forall X1.(m2\_subset\_1\ X1\ k1\_numbers\ k5\_numbers) \Rightarrow (k12\_supinf\_2\ X0\ X1 \neq k1\_supinf\_1)) \vee (k19\_supinf\_2\ X0 = k1\_supinf\_1))) \tag{1}$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{2}$$

Assume the following.

$$k1\_supinf\_1 = k1\_xxreal\_0 \tag{3}$$

Assume the following.

$$k1\_xxreal\_0 = k1\_numbers \tag{4}$$

Assume the following.

$$\forall X0.((v1\_funct\_1\ X0) \wedge ((v1\_funct\_2\ X0\ k5\_numbers\ k7\_numbers) \wedge (m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ k7\_numbers))))) \Rightarrow ((v7\_supinf\_2\ X0) \Leftrightarrow (k19\_supinf\_2\ X0 \in k1\_numbers)) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.(X0 \in X1) \Rightarrow (\neg X1 \in X0) \tag{6}$$

Theorem 1

$$\forall X0.((v1\_funct\_1\ X0)\wedge((v1\_funct\_2\ X0\ k5\_numbers\ k7\_numbers)\wedge (m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ k5\_numbers\ k7\_numbers)))))\Rightarrow (\neg(v6\_supinf\_2\ X0)\wedge((\exists X1.(m2\_subset\_1\ X1\ k1\_numbers\ k5\_numbers)\wedge (k12\_supinf\_2\ X0\ X1 = k1\_supinf\_1))\wedge(v7\_supinf\_2\ X0)))$$