t14_mesfunc3 (TMMW4yGTDFwHnKqKBKGJ8d5UtC8ctiy2HqL)

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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 $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7\_numbers : \iota$ be given. Let $r1\_mesfunc2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_supinf\_2 : \iota$ be given. Let $k12\_supinf\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_prob\_2 : \iota \Rightarrow o$ be given. Let $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1\_mesfunc3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np\_\_1 : \iota$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $np\_\_2 : \iota$ be given. Let $k4\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_supinf\_1 : \iota$ be given. Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.((\neg v1\_xboole\_0\ X1) \wedge ((v1\_prob\_1\ X1\ X0) \wedge ((v4\_prob\_1\ X1\ X0) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k1\_zfmisc\_1\ X0)))))) \Rightarrow (\forall X2.((v1\_funct\_1\ X2) \wedge (m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ k7\_numbers)))) \Rightarrow (\neg (r1\_mesfunc2\ X0\ X1\ X2) \wedge ((\forall X3.(X3 \in k1\_relset\_1\ X0\ X2) \Rightarrow (r1\_xxreal\_0\ k1\_supinf\_2\ (k12\_supinf\_2\ X2\ X3))) \wedge ((\exists X3.(X3 \in k1\_relset\_1\ X0\ X2) \wedge (k1\_supinf\_2 = k12\_supinf\_2\ X2\ X3)) \wedge (\forall X3.((v1\_prob\_2\ X3) \wedge (m2\_finseq\_1\ X3\ X1)) \Rightarrow (\forall X4.(m2\_finseq\_1\ X4\ k7\_numbers) \Rightarrow (\neg (r1\_mesfunc3\ X0\ X1\ X2\ X3\ X4) \wedge ((k12\_supinf\_2\ X4\ np\_\_1 = k1\_supinf\_2) \wedge (\forall X5.(v7\_ordinal1\ X5) \Rightarrow (((r1\_xxreal\_0\ np\_\_2\ X5) \wedge (X5 \in k4\_finseq\_1\ X4)) \Rightarrow ((\neg r1\_xxreal\_0\ (k12\_supinf\_2\ X4\ X5)\ k1\_supinf\_2) \wedge (\neg r1\_xxreal\_0\ k1\_supinf\_1\ (k12\_supinf\_2\ X4\ X5)))))))))))))) \tag{1}$$

Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0)\Rightarrow(\forall X1.((\neg v1\_xboole\_0\ X1)\wedge((v1\_prob\_1\ X1\ X0)\wedge((v4\_prob\_1\ X1\ X0)\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k1\_zfmisc\_1\ X0))))))\Rightarrow(\forall X2.((v1\_funct\_1\ X2)\wedge(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ k7\_numbers))))\Rightarrow(\neg(r1\_mesfunc2\ X0\ X1\ X2)\wedge((\forall X3.(X3\in k1\_relset\_1\ X0\ X2)\Rightarrow(r1\_xxreal\_0\ k1\_supinf\_2\ (k12\_supinf\_2\ X2\ X3)))\wedge((\forall X3.\neg(X3\in k1\_relset\_1\ X0\ X2)\wedge(k1\_supinf\_2 = k12\_supinf\_2\ X2\ X3))\wedge(\forall X3.((v1\_prob\_2\ X3)\wedge(m2\_finseq\_1\ X3\ X1))\Rightarrow(\forall X4.(m2\_finseq\_1\ X4\ k7\_numbers)\Rightarrow(\neg(r1\_mesfunc3\ X0\ X1\ X2\ X3\ X4)\wedge((k12\_supinf\_2\ X4\ np\_\_1 = k1\_supinf\_2)\wedge(\forall X5.(v7\_ordinal1\ X5)\Rightarrow(((r1\_xxreal\_0\ np\_\_2\ X5)\wedge(X5\in k4\_finseq\_1\ X4))\Rightarrow((\neg r1\_xxreal\_0\ (k12\_supinf\_2\ X4\ X5)\ k1\_supinf\_2)\wedge(\neg r1\_xxreal\_0\ k1\_supinf\_1\ (k12\_supinf\_2\ X4\ X5))))))))))))))) \tag{2}$$

Theorem 1

$$\forall X0.(\neg v1\_xboole\_0\ X0)\Rightarrow(\forall X1.((\neg v1\_xboole\_0\ X1)\wedge((v1\_prob\_1\ X1\ X0)\wedge((v4\_prob\_1\ X1\ X0)\wedge(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k1\_zfmisc\_1\ X0))))))\Rightarrow(\forall X2.((v1\_funct\_1\ X2)\wedge(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ k7\_numbers))))\Rightarrow(\neg(r1\_mesfunc2\ X0\ X1\ X2)\wedge((\forall X3.(X3\in k1\_relset\_1\ X0\ X2)\Rightarrow(r1\_xxreal\_0\ k1\_supinf\_2\ (k12\_supinf\_2\ X2\ X3)))\wedge(\forall X3.((v1\_prob\_2\ X3)\wedge(m2\_finseq\_1\ X3\ X1))\Rightarrow(\forall X4.(m2\_finseq\_1\ X4\ k7\_numbers)\Rightarrow(\neg(r1\_mesfunc3\ X0\ X1\ X2\ X3\ X4)\wedge((k12\_supinf\_2\ X4\ np\_\_1 = k1\_supinf\_2)\wedge(\forall X5.(v7\_ordinal1\ X5)\Rightarrow(((r1\_xxreal\_0\ np\_\_2\ X5)\wedge(X5\in k4\_finseq\_1\ X4))\Rightarrow((\neg r1\_xxreal\_0\ (k12\_supinf\_2\ X4\ X5)\ k1\_supinf\_2)\wedge(\neg r1\_xxreal\_0\ k1\_supinf\_1\ (k12\_supinf\_2\ X4\ X5)))))))))))))$$