l35_fomodel3 (TMZiptZ9QALyiAN3yDNGiZnR1gKPPnvVd67)

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Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r2\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4\_finseq\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8\_fomodel3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.((m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1)))\wedge(m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1))))\Rightarrow((r2\_relset\_1\ X0\ X1\ X2\ X3)\Leftrightarrow(X2 = X3)) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1)))\Rightarrow((r1\_relset\_1\ X0\ X1\ X2\ X3)\Leftrightarrow(r1\_tarski\ X2\ X3)) \tag{2}$$

Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0)\Rightarrow(\forall X1.(\neg v1\_xboole\_0\ X1)\Rightarrow(\forall X2.(\neg v1\_xboole\_0\ X2)\Rightarrow(\forall X3.(v7\_ordinal1\ X3)\Rightarrow(\forall X4.((\neg v1\_xboole\_0\ X4)\wedge(m1\_subset\_1\ X4\ (k1\_zfmisc\_1\ X0)))\Rightarrow(\forall X5.(m1\_subset\_1\ X5\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X1\ X4)))\Rightarrow(\forall X6.(m1\_subset\_1\ X6\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X2)))\Rightarrow(r1\_relset\_1\ (k4\_finseq\_2\ X3\ X1)\ (k4\_finseq\_2\ X3\ X2)\ (k8\_fomodel3\ X1\ X2\ (k4\_relset\_1\ X1\ X4\ X0\ X2\ X5\ X6)\ X3)\ (k4\_relset\_1\ (k4\_finseq\_2\ X3\ X1)\ (k4\_finseq\_2\ X3\ X4)\ (k4\_finseq\_2\ X3\ X0)\ (k4\_finseq\_2\ X3\ X2)\ (k8\_fomodel3\ X1\ X4\ X5\ X3)\ (k8\_fomodel3\ X0\ X2\ X6\ X3)))))))))) \tag{3}$$

Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0)\Rightarrow(\forall X1.(\neg v1\_xboole\_0\ X1)\Rightarrow (\forall X2.(\neg v1\_xboole\_0\ X2)\Rightarrow(\forall X3.(v7\_ordinal1\ X3)\Rightarrow (\forall X4.((\neg v1\_xboole\_0\ X4)\wedge(m1\_subset\_1\ X4\ (k1\_zfmisc\_1\ X0)))\Rightarrow(\forall X5.(m1\_subset\_1\ X5\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X1\ X4)))\Rightarrow(\forall X6.(m1\_subset\_1\ X6\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X2)))\Rightarrow(r1\_relset\_1\ (k4\_finseq\_2\ X3\ X1)\ (k4\_finseq\_2\ X3\ X2)\ (k4\_relset\_1\ (k4\_finseq\_2\ X3\ X1)\ (k4\_finseq\_2\ X3\ X4)\ (k4\_finseq\_2\ X3\ X0)\ (k4\_finseq\_2\ X3\ X2)\ (k8\_fomodel3\ X1\ X4\ X5\ X3)\ (k8\_fomodel3\ X0\ X2\ X6\ X3))\ (k8\_fomodel3\ X1\ X2\ (k4\_relset\_1\ X1\ X4\ X0\ X2\ X5\ X6)\ X3)))))))) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.((\neg v1\_xboole\_0\ X0)\wedge((\neg v1\_xboole\_0\ X1)\wedge((m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1)))\wedge(v7\_ordinal1\ X3))))\Rightarrow(m1\_subset\_1\ (k8\_fomodel3\ X0\ X1\ X2\ X3)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k4\_finseq\_2\ X3\ X0)\ (k4\_finseq\_2\ X3\ X1)))) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.\forall X4.\forall X5.((m1\_subset\_1\ X4\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1)))\wedge(m1\_subset\_1\ X5\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X2\ X3))))\Rightarrow(m1\_subset\_1\ (k4\_relset\_1\ X0\ X1\ X2\ X3\ X4\ X5)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X3))) \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.(X0 = X1)\Leftrightarrow((r1\_tarski\ X0\ X1)\wedge(r1\_tarski\ X1\ X0)) \tag{7}$$

Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0))\Rightarrow(v1\_xboole\_0\ X1)) \tag{8}$$

Theorem 1

$$\forall X0.(\neg v1\_xboole\_0\ X0)\Rightarrow(\forall X1.(\neg v1\_xboole\_0\ X1)\Rightarrow (\forall X2.(\neg v1\_xboole\_0\ X2)\Rightarrow(\forall X3.(v7\_ordinal1\ X3)\Rightarrow (\forall X4.((\neg v1\_xboole\_0\ X4)\wedge(m1\_subset\_1\ X4\ (k1\_zfmisc\_1\ X0)))\Rightarrow(\forall X5.(m1\_subset\_1\ X5\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X1\ X4)))\Rightarrow(\forall X6.(m1\_subset\_1\ X6\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X2)))\Rightarrow(r2\_relset\_1\ (k4\_finseq\_2\ X3\ X1)\ (k4\_finseq\_2\ X3\ X2)\ (k8\_fomodel3\ X1\ X2\ (k4\_relset\_1\ X1\ X4\ X0\ X2\ X5\ X6)\ X3)\ (k4\_relset\_1\ (k4\_finseq\_2\ X3\ X1)\ (k4\_finseq\_2\ X3\ X4)\ (k4\_finseq\_2\ X3\ X0)\ (k4\_finseq\_2\ X3\ X2)\ (k8\_fomodel3\ X1\ X4\ X5\ X3)\ (k8\_fomodel3\ X0\ X2\ X6\ X3)))))))))$$