t62_modelc_3 (TMcKDwh-LAAu5wT117oCFhxJNkzavvFRwbw4)

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Let $v1\_modelc\_2 : \iota \Rightarrow o$ be given. Let $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5\_numbers : \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k25\_modelc\_2 : \iota \Rightarrow \iota$ be given. Let $k43\_modelc\_2 : \iota$ be given. Let $m1\_orders\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_orders\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_modelc\_3 : \iota \Rightarrow \iota$ be given. Let $r7\_modelc\_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k26\_modelc\_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_modelc\_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $l1\_modelc\_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r8\_modelc\_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k14\_modelc\_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v3\_modelc\_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k25\_modelc\_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r4\_modelc\_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4\_ordinal1 : \iota$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k22\_modelc\_3 : \iota \Rightarrow \iota$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10\_modelc\_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $g1\_modelc\_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7\_modelc\_3 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((v1\_modelc\_2\ X0) \wedge (m2\_finseq\_1\ X0\ k5\_numbers)) \Rightarrow (\forall X1.((v1\_modelc\_3\ X1\ X0) \wedge (l1\_modelc\_3\ X1\ X0)) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (k25\_modelc\_2\ k43\_modelc\_2)) \Rightarrow (\forall X3.(m1\_orders\_1\ X3\ (k1\_orders\_1\ (k1\_modelc\_3\ X0))) \Rightarrow ((r8\_modelc\_2\ X2\ (k14\_modelc\_3\ X0\ X1)) \Rightarrow ((v3\_modelc\_3\ X1\ X0) \vee ((r8\_modelc\_2\ X2\ (k14\_modelc\_3\ X0\ (k25\_modelc\_3\ X2\ X0\ X3\ X1))) \wedge (r4\_modelc\_3\ X0\ X1\ (k25\_modelc\_3\ X2\ X0\ X3\ X1)))))))) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(m2\_finseq\_1\ X1\ X0) \Leftrightarrow (m1\_finseq\_1\ X1\ X0) \tag{2}$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((m1\_subset\_1\ X0\ (k25\_modelc\_2\ k43\_modelc\_2))\wedge(((v1\_modelc\_2\ X1)\wedge(m1\_finseq\_1\ X1\ k5\_numbers))\wedge(m1\_orders\_1\ X2\ (k1\_orders\_1\ (k1\_modelc\_3\ X1)))))\Rightarrow((v1\_funct\_1\ (k26\_modelc\_3\ X0\ X1\ X2))\wedge((v1\_funct\_2\ (k26\_modelc\_3\ X0\ X1\ X2)\ (k22\_modelc\_3\ X1)\ (k22\_modelc\_3\ X1))\wedge(m1\_subset\_1\ (k26\_modelc\_3\ X0\ X1\ X2)\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k22\_modelc\_3\ X1)\ (k22\_modelc\_3\ X1))))))) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.((m1\_subset\_1\ X0\ (k25\_modelc\_2\ k43\_modelc\_2))\wedge(((v1\_modelc\_2\ X1)\wedge(m1\_finseq\_1\ X1\ k5\_numbers))\wedge((m1\_orders\_1\ X2\ (k1\_orders\_1\ (k1\_modelc\_3\ X1)))\wedge((v1\_modelc\_3\ X3\ X1)\wedge(l1\_modelc\_3\ X3\ X1)))))\Rightarrow((v1\_modelc\_3\ (k25\_modelc\_3\ X0\ X1\ X2\ X3)\ X1)\wedge(l1\_modelc\_3\ (k25\_modelc\_3\ X0\ X1\ X2\ X3)\ X1)) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_modelc\_2\ X1)\wedge(m1\_finseq\_1\ X1\ k5\_numbers))\Rightarrow((v1\_modelc\_3\ (k10\_modelc\_3\ X0\ X1)\ X1)\wedge(l1\_modelc\_3\ (k10\_modelc\_3\ X0\ X1)\ X1)) \tag{6}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k25\_modelc\_2\ k43\_modelc\_2))\Rightarrow(\forall X1.((v1\_modelc\_2\ X1)\wedge(m2\_finseq\_1\ X1\ k5\_numbers))\Rightarrow(\forall X2.(m1\_orders\_1\ X2\ (k1\_orders\_1\ (k1\_modelc\_3\ X1)))\Rightarrow(\forall X3.((v1\_funct\_1\ X3)\wedge((v1\_funct\_2\ X3\ (k22\_modelc\_3\ X1)\ (k22\_modelc\_3\ X1))\wedge(m1\_subset\_1\ X3\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ (k22\_modelc\_3\ X1)\ (k22\_modelc\_3\ X1))))))\Rightarrow((X3 = k26\_modelc\_3\ X0\ X1\ X2)\Leftrightarrow(\forall X4.(X4 \in k22\_modelc\_3\ X1)\Rightarrow(k1\_funct\_1\ X3\ X4 = k25\_modelc\_3\ X0\ X1\ X2\ (k10\_modelc\_3\ X4\ X1))))))) \tag{7}$$

Assume the following.

$$\forall X0.((v1\_modelc\_2\ X0)\wedge(m2\_finseq\_1\ X0\ k5\_numbers))\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (k25\_modelc\_2\ k43\_modelc\_2))\Rightarrow(\forall X2.((v1\_relat\_1\ X2)\wedge(v1\_funct\_1\ X2))\Rightarrow((r7\_modelc\_3\ X0\ X1\ X2)\Leftrightarrow(\forall X3.((X3 \in k22\_modelc\_3\ X0)\wedge(r8\_modelc\_2\ X1\ (k14\_modelc\_3\ X0\ (k10\_modelc\_3\ X3\ X0))))\Rightarrow((v3\_modelc\_3\ (k10\_modelc\_3\ X3\ X0)\ X0)\vee((r4\_modelc\_3\ X0\ (k10\_modelc\_3\ X3\ X0)\ (k10\_modelc\_3\ (k1\_funct\_1\ X2\ X3)\ X0))\wedge(r8\_modelc\_2\ X1\ (k14\_modelc\_3\ X0\ (k10\_modelc\_3\ (k1\_funct\_1\ X2\ X3)\ X0)))))))) \tag{8}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_modelc\_2\ X1)\wedge(m2\_finseq\_1\ X1\ k5\_numbers))\Rightarrow((((v1\_modelc\_3\ X0\ X1)\wedge(l1\_modelc\_3\ X0\ X1))\Rightarrow(k10\_modelc\_3\ X0\ X1 = X0))\wedge((\neg(v1\_modelc\_3\ X0\ X1)\wedge(l1\_modelc\_3\ X0\ X1))\Rightarrow(k10\_modelc\_3\ X0\ X1 = g1\_modelc\_3\ X1\ (k7\_modelc\_3\ X1)\ (k7\_modelc\_3\ X1)\ (k7\_modelc\_3\ X1))))) \tag{9}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k2\_zfmisc\_1\ X0\ X1)))\Rightarrow(v1\_relat\_1\ X2) \tag{10}$$

Theorem 1

$$\forall X0.((v1\_modelc\_2\ X0)\wedge(m2\_finseq\_1\ X0\ k5\_numbers))\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (k25\_modelc\_2\ k43\_modelc\_2))\Rightarrow(\forall X2.(m1\_orders\_1\ X2\ (k1\_orders\_1\ (k1\_modelc\_3\ X0)))\Rightarrow(r7\_modelc\_3\ X0\ X1\ (k26\_modelc\_3\ X1\ X0\ X2))))$$