t34_modelc_3 (TMQzkFJCLwB-NyB17rPLAUgsH2YEMKAeK51A)

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Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_finseq\_1 : \iota \Rightarrow o$ be given. 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 $r5\_modelc\_3 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np\_\_1 : \iota$ be given. Let $k3\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $u2\_modelc\_3 : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k7\_modelc\_3 : \iota \Rightarrow \iota$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_modelc\_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((v1\_relat\_1\ X0) \wedge ((v1\_funct\_1\ X0) \wedge (v1\_finseq\_1\ X0))) \Rightarrow (\forall X1.((v1\_modelc\_2\ X1) \wedge (m2\_finseq\_1\ X1\ k5\_numbers)) \Rightarrow (((r5\_modelc\_3\ X1\ X0) \wedge ((r1\_xxreal\_0\ np\_\_1\ (k3\_finseq\_1\ X0)) \wedge (u2\_modelc\_3\ X1\ (k10\_modelc\_3\ (k1\_funct\_1\ X0\ (k3\_finseq\_1\ X0))\ X1) = k7\_modelc\_3\ X1))) \Rightarrow (r1\_tarski\ (u2\_modelc\_3\ X1\ (k10\_modelc\_3\ (k1\_funct\_1\ X0\ np\_\_1)\ X1))\ (u1\_modelc\_3\ X1\ (k10\_modelc\_3\ (k1\_funct\_1\ X0\ (k3\_finseq\_1\ X0))\ X1)))))) \tag{1}$$

Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.((v1\_relat\_1\ X1) \wedge ((v1\_funct\_1\ X1) \wedge (v1\_finseq\_1\ X1))) \Rightarrow (\forall X2.((v1\_modelc\_2\ X2) \wedge (m2\_finseq\_1\ X2\ k5\_numbers)) \Rightarrow (\neg(r5\_modelc\_3\ X2\ X1) \wedge ((r1\_xxreal\_0\ np\_\_1\ X0) \wedge ((r1\_xxreal\_0\ X0\ (k3\_finseq\_1\ X1)) \wedge (\forall X3.((v1\_relat\_1\ X3) \wedge ((v1\_funct\_1\ X3) \wedge (v1\_finseq\_1\ X3))) \Rightarrow (\forall X4.((v1\_relat\_1\ X4) \wedge ((v1\_funct\_1\ X4) \wedge (v1\_finseq\_1\ X4))) \Rightarrow (\neg(r5\_modelc\_3\ X2\ X4) \wedge ((X1 = k7\_finseq\_1\ X3\ X4) \wedge ((k1\_funct\_1\ X4\ np\_\_1 = k1\_funct\_1\ X1\ X0) \wedge ((r1\_xxreal\_0\ np\_\_1\ (k3\_finseq\_1\ X4)) \wedge ((k3\_finseq\_1\ X4 = k9\_real\_1\ (k3\_finseq\_1\ X1)\ (k5\_real\_1\ X0\ np\_\_1)) \wedge (k1\_funct\_1\ X4\ (k3\_finseq\_1\ X4) = k1\_funct\_1\ X1\ (k3\_finseq\_1\ X1)))))))))))))) \tag{2}$$

Theorem 1

$$\forall X0.(v7\_ordinal1\ X0)\Rightarrow(\forall X1.((v1\_relat\_1\ X1)\wedge((v1\_funct\_1\ X1)\wedge(v1\_finseq\_1\ X1)))\Rightarrow(\forall X2.((v1\_modelc\_2\ X2)\wedge(m2\_finseq\_1\ X2\ k5\_numbers))\Rightarrow(((r5\_modelc\_3\ X2\ X1)\wedge((r1\_xxreal\_0\ np\_\_1\ X0)\wedge((r1\_xxreal\_0\ X0\ (k3\_finseq\_1\ X1))\wedge(u2\_modelc\_3\ X2\ (k10\_modelc\_3\ (k1\_funct\_1\ X1\ (k3\_finseq\_1\ X1))\ X2) = k7\_modelc\_3\ X2))))\Rightarrow(r1\_tarski\ (u2\_modelc\_3\ X2\ (k10\_modelc\_3\ (k1\_funct\_1\ X1\ X0)\ X2))\ (u1\_modelc\_3\ X2\ (k10\_modelc\_3\ (k1\_funct\_1\ X1\ (k3\_finseq\_1\ X1))\ X2))))))$$