t39_modelc_2 (TMRNrR6rYaJtRHNZ8ShAdtUeT32orwpvUco)

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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 $r3\_modelc\_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3\_modelc\_2 : \iota \Rightarrow \iota$ be given. Let $r2\_modelc\_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3\_modelc\_2 : \iota \Rightarrow o$ be given. Let $v6\_modelc\_2 : \iota \Rightarrow o$ be given. Let $k10\_modelc\_2 : \iota \Rightarrow \iota$ be given. Let $m1\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6\_modelc\_2 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((v1\_modelc\_2\ X0) \wedge (m2\_finseq\_1\ X0\ k5\_numbers)) \Rightarrow (\forall X1.((v1\_modelc\_2\ X1) \wedge (m2\_finseq\_1\ X1\ k5\_numbers)) \Rightarrow ((r3\_modelc\_2\ X1\ X0) \Rightarrow (((\neg v3\_modelc\_2\ X0) \wedge (\neg v6\_modelc\_2\ X0)) \vee (r2\_modelc\_2\ X1\ (k10\_modelc\_2\ X0))))) \tag{1}$$

Assume the following.

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

Assume the following.

$$\forall X0.((v1\_modelc\_2\ X0) \wedge (m1\_finseq\_1\ X0\ k5\_numbers)) \Rightarrow (v1\_modelc\_2\ (k3\_modelc\_2\ X0)) \tag{3}$$

Assume the following.

$$\forall X0.(m1\_finseq\_1\ X0\ k5\_numbers) \Rightarrow (m2\_finseq\_1\ (k3\_modelc\_2\ X0)\ k5\_numbers) \tag{4}$$

Assume the following.

$$\forall X0.((v1\_modelc\_2\ X0) \wedge (m2\_finseq\_1\ X0\ k5\_numbers)) \Rightarrow (((v3\_modelc\_2\ X0) \vee (v6\_modelc\_2\ X0)) \Rightarrow (\forall X1.((v1\_modelc\_2\ X1) \wedge (m2\_finseq\_1\ X1\ k5\_numbers)) \Rightarrow (((v3\_modelc\_2\ X0) \Rightarrow ((X1 = k10\_modelc\_2\ X0) \Leftrightarrow (k3\_modelc\_2\ X1 = X0))) \wedge ((\neg v3\_modelc\_2\ X0) \Rightarrow ((X1 = k10\_modelc\_2\ X0) \Leftrightarrow (k6\_modelc\_2\ X1 = X0))))))) \tag{5}$$

Assume the following.

$$\forall X0.((v1\_modelc\_2\ X0)\wedge(m2\_finseq\_1\ X0\ k5\_numbers))\Rightarrow(\\(v3\_modelc\_2\ X0)\Leftrightarrow(\exists X1.((v1\_modelc\_2\ X1)\wedge(m2\_finseq\_1\\ X1\ k5\_numbers))\wedge(X0 = k3\_modelc\_2\ X1))) \tag{6}$$

Theorem 1

$$\forall X0.((v1\_modelc\_2\ X0)\wedge(m2\_finseq\_1\ X0\ k5\_numbers))\Rightarrow(\\\forall X1.((v1\_modelc\_2\ X1)\wedge(m2\_finseq\_1\ X1\ k5\_numbers))\Rightarrow(\\(r3\_modelc\_2\ X0\ (k3\_modelc\_2\ X1))\Rightarrow(r2\_modelc\_2\ X0\ X1)))$$