

t69_complsp2
(TMSWpiqGgZjJuBq91ry4eXCPd3kwK4PiSBf)

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Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_numbers : \iota$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k8_complsp2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k11_seq_4 : \iota \Rightarrow \iota$ be given. Let $k1_binop_2 : \iota \Rightarrow \iota$ 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 $v1_valued_0 : \iota \Rightarrow o$ be given. Let $k30_valued_1 : \iota \Rightarrow \iota$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.(m2_finseq_1 X0 k2_numbers) \Rightarrow (\forall X1.(m2_finseq_1 \\ X1 k2_numbers) \Rightarrow ((k3_finseq_1 X0 = k3_finseq_1 X1) \Rightarrow (k8_complsp2 \\ X0 (k11_seq_4 X1) = k1_binop_2 (k8_complsp2 X0 X1)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(m2_finseq_1 X0 k2_numbers) \Rightarrow (\forall X1.(m2_finseq_1 \\ X1 k2_numbers) \Rightarrow ((k3_finseq_1 X0 = k3_finseq_1 X1) \Rightarrow (k8_complsp2 \\ (k11_seq_4 X0) X1 = k1_binop_2 (k8_complsp2 X0 X1)))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge ((v1_finseq_1 \\ X0) \wedge (v1_valued_0 X0)))) \Rightarrow (k3_finseq_1 (k30_valued_1 X0) = k3_finseq_1 \\ X0) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0. \forall X1.(m2_finseq_1 X1 X0) \Leftrightarrow (m1_finseq_1 X1 X0) \quad (4)$$

Assume the following.

$$\forall X0.(m1_finseq_1 X0 k2_numbers) \Rightarrow (k11_seq_4 X0 = k30_valued_1 X0) \quad (5)$$

Assume the following.

$$\forall X0.(m1_finseq_1 X0 k2_numbers) \Rightarrow (k11_seq_4 (k11_seq_4 X0) = X0) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.(m1_finseq_1 X1 X0)\Rightarrow((v1_relat_1 X1)\wedge(v1_funct_1 X1)\wedge(v1_finseq_1 X1)) \quad (7)$$

Assume the following.

$$\forall X0.(m1_finseq_1 X0 k2_numbers)\Rightarrow(m2_finseq_1 (k11_seq_4 X0) k2_numbers) \quad (8)$$

Assume the following.

$$\forall X0.(m1_finseq_1 X0 k2_numbers)\Rightarrow(v1_valued_0 X0) \quad (9)$$

Theorem 1

$$\forall X0.(m2_finseq_1 X0 k2_numbers)\Rightarrow(\forall X1.(m2_finseq_1 X1 k2_numbers)\Rightarrow((k3_finseq_1 X0 = k3_finseq_1 X1)\Rightarrow(k8_complsp2 (k11_seq_4 X0) (k11_seq_4 X1) = k8_complsp2 X0 X1)))$$