

t142_rvsum_1 (TMQzZFnoajPh-
pRdUwiDN4q8n1GEemR3QRB2)

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Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $k16_rvsum_1 : \iota \Rightarrow \iota$ be given. Let $k7_finseq_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_binop_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k11_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v3_valued_0 : \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $k7_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_finseq_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (\forall X2. \\ (v1_xreal_0 X2) \Rightarrow (k16_rvsum_1 (k11_finseq_1 X0 X1 X2) = k9_binop_2 \\ (k9_binop_2 X0 X1) X2))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.((v1_relat_1 X1) \wedge ((v1_funct_1 \\ X1) \wedge ((v3_valued_0 X1) \wedge (v1_finseq_1 X1)))) \Rightarrow (k16_rvsum_1 (k7_finseq_1 \\ X1 (k9_finseq_1 X0)) = k9_binop_2 (k16_rvsum_1 X1) X0)) \end{aligned} \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(v1_relat_1 (k11_finseq_1 X0 \\ X1 X2)) \wedge (v1_funct_1 (k11_finseq_1 X0 X1 X2)) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((v1_xreal_0 X0) \wedge ((v1_xreal_0 \\ X1) \wedge (v1_xreal_0 X2))) \Rightarrow (v3_valued_0 (k11_finseq_1 X0 X1 X2)) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.v1_finseq_1 (k11_finseq_1 X0 \\ X1 X2) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.\forall X3.k7_finseq_4 X0 X1 \\ X2 X3 = k7_finseq_1 (k11_finseq_1 X0 X1 X2) (k9_finseq_1 X3) \tag{6}$$

Theorem 1

$$\begin{aligned} & \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (\forall X2. \\ & (v1_xreal_0 X2) \Rightarrow (\forall X3.(v1_xreal_0 X3) \Rightarrow (k16_rvsum_1 (k7_finseq_4 \\ & X0 X1 X2 X3) = k9_binop_2 (k9_binop_2 (k9_binop_2 X0 X1) X2) X3)))) \end{aligned}$$