

t135\_rvsum\_1  
(TMUGjv8vCey2zxKtanYgCh1zdrkPwZ29628)

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Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $m2\_finseq\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k4\_finseq\_2 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k23\_rvsum\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k5\_rvsum\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k11\_rvsum\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k9\_binop\_2 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k11\_binop\_2 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $m1\_finseq\_2 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} \forall X0.(v7\_ordinal1 X0) \Rightarrow (\forall X1.(m2\_finseq\_2 X1 k1\_numbers \\ (k4\_finseq\_2 X0 k1\_numbers)) \Rightarrow (\forall X2.(m2\_finseq\_2 X2 k1\_numbers \\ (k4\_finseq\_2 X0 k1\_numbers)) \Rightarrow (\forall X3.(v1\_xreal\_0 X3) \Rightarrow (k23\_rvsum\_1 \\ (k11\_rvsum\_1 X0 X1 X3) X2 = k11\_binop\_2 X3 (k23\_rvsum\_1 X1 X2)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(v7\_ordinal1 X0) \Rightarrow (\forall X1.(m2\_finseq\_2 X1 k1\_numbers \\ (k4\_finseq\_2 X0 k1\_numbers)) \Rightarrow (\forall X2.(m2\_finseq\_2 X2 k1\_numbers \\ (k4\_finseq\_2 X0 k1\_numbers)) \Rightarrow (\forall X3.(m2\_finseq\_2 X3 k1\_numbers \\ (k4\_finseq\_2 X0 k1\_numbers)) \Rightarrow (k23\_rvsum\_1 (k5\_rvsum\_1 X0 X1 X2) \\ X3 = k9\_binop\_2 (k23\_rvsum\_1 X1 X3) (k23\_rvsum\_1 X2 X3)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(m1\_finseq\_2 X1 X0) \Rightarrow (\forall X2.(m2\_finseq\_2 X2 X0 X1) \Leftrightarrow (m1\_subset\_1 X2 X1)) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.(v7\_ordinal1 X0) \Rightarrow (m1\_finseq\_2 (k4\_finseq\_2 X0 X1) X1) \quad (4)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.\forall X2.((v7\_ordinal1 X0) \wedge ((m1\_subset\_1 \\ X1 (k4\_finseq\_2 X0 k1\_numbers)) \wedge (v1\_xreal\_0 X2))) \Rightarrow (m2\_finseq\_2 \\ (k11\_rvsum\_1 X0 X1 X2) k1\_numbers (k4\_finseq\_2 X0 k1\_numbers)) \end{aligned} \quad (5)$$

**Theorem 1**

$$\begin{aligned} & \forall X0.(v7\_ordinal1\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow (\forall X2. \\ & (v1\_xreal\_0\ X2) \Rightarrow (\forall X3.(m2\_finseq\_2\ X3\ k1\_numbers\ (k4\_finseq\_2 \\ & X0\ k1\_numbers)) \Rightarrow (\forall X4.(m2\_finseq\_2\ X4\ k1\_numbers\ (k4\_finseq\_2 \\ & X0\ k1\_numbers)) \Rightarrow (\forall X5.(m2\_finseq\_2\ X5\ k1\_numbers\ (k4\_finseq\_2 \\ & X0\ k1\_numbers)) \Rightarrow (k23\_rvsum\_1\ (k5\_rvsum\_1\ X0\ (k11\_rvsum\_1\ X0\ X3 \\ & X1)\ (k11\_rvsum\_1\ X0\ X4\ X2))\ X5 = k9\_binop\_2\ (k11\_binop\_2\ X1\ (k23\_rvsum\_1 \\ & X3\ X5))\ (k11\_binop\_2\ X2\ (k23\_rvsum\_1\ X4\ X5))))))))) \end{aligned}$$