# t67_rvsum_1 (TMRMn-Jnp5vpiyC5bq9Byv1xaFTPhwQLH2sH)

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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 $k12\_rvsum\_1 : \iota \Rightarrow \iota$ be given. Let $k14\_rvsum\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k18\_valued\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k39\_valued\_1 : \iota \Rightarrow \iota$ be given. Let $v1\_valued\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.\forall X1.(((v1\_relat\_1\ X0) \wedge ((v1\_funct\_1\ X0) \wedge (( v3\_valued\_0\ X0) \wedge (v1\_finseq\_1\ X0)))) \wedge ((v1\_relat\_1\ X1) \wedge ((v1\_funct\_1\ X1) \wedge ((v3\_valued\_0\ X1) \wedge (v1\_finseq\_1\ X1))))) \Rightarrow (k14\_rvsum\_1\ X0\ X1 = k18\_valued\_1\ X0\ X1) \tag{1}$$

Assume the following.

$$\forall X0.((v1\_relat\_1\ X0) \wedge ((v1\_funct\_1\ X0) \wedge ((v3\_valued\_0\ X0) \wedge (v1\_finseq\_1\ X0)))) \Rightarrow (k12\_rvsum\_1\ X0 = k39\_valued\_1\ X0) \tag{2}$$

Assume the following.

$$\forall X0.((v1\_relat\_1\ X0) \wedge ((v1\_funct\_1\ X0) \wedge (v1\_valued\_0\ X0))) \Rightarrow (k39\_valued\_1\ X0 = k18\_valued\_1\ X0\ X0) \tag{3}$$

Assume the following.

$$\forall X0.((v1\_relat\_1\ X0) \wedge (v3\_valued\_0\ X0)) \Rightarrow ((v1\_relat\_1\ X0) \wedge (v1\_valued\_0\ X0)) \tag{4}$$

**Theorem 1**

$$\forall X0.((v1\_relat\_1\ X0) \wedge ((v1\_funct\_1\ X0) \wedge ((v3\_valued\_0\ X0) \wedge (v1\_finseq\_1\ X0)))) \Rightarrow (k12\_rvsum\_1\ X0 = k14\_rvsum\_1\ X0\ X0)$$