

l5_rvsum_2
(TMUmU1vUcgGkicUqn7eexdhLaLQCDeq66kS)

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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 $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_numbers : \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k16_rvsum_1 : \iota \Rightarrow \iota$ be given. Let $k1_finsop_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k27_binop_2 : \iota$ be given. Assume the following.

$$\forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge ((v1_valued_0 X0) \wedge (v1_finseq_1 X0)))) \Rightarrow (v1_xcmplx_0 (k16_rvsum_1 X0)) \quad (1)$$

Assume the following.

$$\forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge ((v1_valued_0 X0) \wedge (v1_finseq_1 X0)))) \Rightarrow (\forall X1.(v1_xcmplx_0 X1) \Rightarrow ((X1 = k16_rvsum_1 X0) \Leftrightarrow (\exists X2.(m2_finseq_1 X2 k2_numbers) \wedge ((X2 = X0) \wedge (X1 = k1_finsop_1 k2_numbers X2 k27_binop_2)))))) \quad (2)$$

Theorem 1

$$\forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge ((v1_finseq_1 X0) \wedge (v1_valued_0 X0)))) \Rightarrow (m2_finseq_1 X0 k2_numbers)$$