t62_prob_3 (TMN38y7ZXTdJbmKzNSpgyP35aM2qrzD3VbK)

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Let $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $k3\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $k18\_rvsum\_1 : \iota \Rightarrow \iota$ be given. Let $v5\_ordinal1 : \iota \Rightarrow o$ be given. Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v5\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_finset\_1 : \iota \Rightarrow o$ be given. Let $k1\_afinsq\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_nat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $k1\_seq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_nat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(m2\_finseq\_1\ X0\ k1\_numbers) \Rightarrow (\exists X1.((v5\_ordinal1\ X1) \wedge ((v1\_relat\_1\ X1) \wedge ((v5\_relat\_1\ X1\ k1\_numbers) \wedge ((v1\_funct\_1\ X1) \wedge (v1\_finset\_1\ X1))))) \wedge ((k1\_afinsq\_1\ X1 = k2\_nat\_1\ (k3\_finseq\_1\ X0)\ np\_\_1) \wedge ((k1\_seq\_1\ X1\ k6\_numbers = k6\_numbers) \wedge ((\forall X2.(v7\_ordinal1\ X2) \Rightarrow ((\neg r1\_xxreal\_0\ (k3\_finseq\_1\ X0)\ X2) \Rightarrow (k1\_seq\_1\ X1\ (k1\_nat\_1\ X2\ np\_\_1) = k7\_real\_1\ (k1\_seq\_1\ X1\ X2)\ (k1\_seq\_1\ X0\ (k1\_nat\_1\ X2\ np\_\_1))))) \wedge (k18\_rvsum\_1\ X0 = k1\_seq\_1\ X1\ (k3\_finseq\_1\ X0))))))) \tag{1}$$

Theorem 1

$$\forall X0.(m2\_finseq\_1\ X0\ k1\_numbers) \Rightarrow ((k3\_finseq\_1\ X0 = k6\_numbers) \Rightarrow (k18\_rvsum\_1\ X0 = k6\_numbers))$$